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In the London of the New Queen 291 H. V. MORTON

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From Tucson to Tombstone 343

With Map and 40 Illustrations
30 in Natural Colors MASON SUTHERLAND

Crickets, Nature's Expert Fiddlers

With 10 Illustrations CATHERINE BELL PALMER

Along the Yukon Trail

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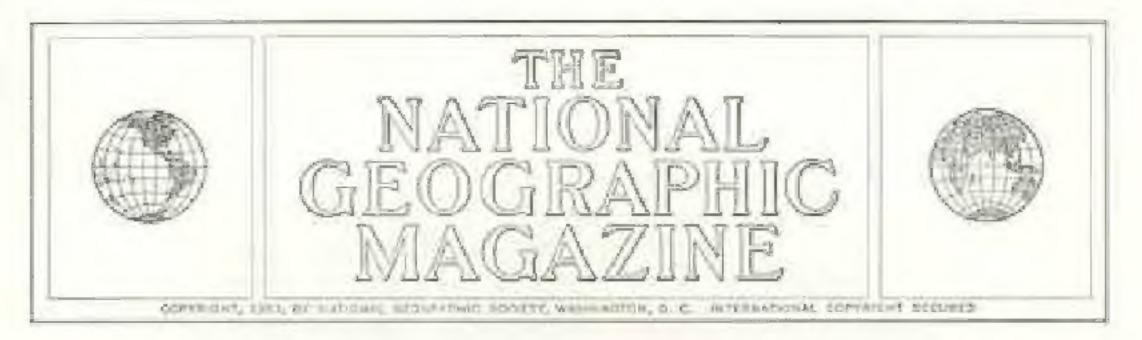
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In the London of the New Queen

By H. V. MORTON

THE Coronation of Queen Elizabeth II is now a brilliant memory. The flags and the luming have been taken down. The grandstands have been demolished. The golden coach is back in its mews and the Crown Jewels are back in the Tower of London.

While it is a memory, it is a historic memory that will not perish. It caught the imagination of a world starved for color and romance, At age that has split the atom and talks of invading the moon watched with emotion and with awe as the trumpets of chivnly sounded and the knights and the becalds led a young queen to be crowning in what seemed to be an enchantment staged by Merlin.

It may well be that a hundred years from now some historian will take down this number of the National Geographic Magazine and search for details of the scene that may help him to shake up the dust of history and blow life into it; and it is with an eye on the unborn author of Elizabeth II, Her Life and Times, that I set down the things I saw and the thoughts that came to me in the London of the new Queen.

"By Command of The Queen"

I was in South Africa. I had no idea that I abould see the Queen crowned. Sixteen years before, I had sat in Westminster Abbey and seen the Crown of St. Edward placed upon the head of King George VI, but it never occurred to me that I might have the luck to see that same crown placed upon the head of his daughter.

Then one day the telephone rang and a voice from Washington asked me to go to London on behalf of the National Geographic Society. I gladly agreed, and there came to me, as the representative of your Society and its Magazine, an important sheet of cardboard which measured ten and one-half by eight

and three-quarter inches. Upon it were these words:

By Command of The Queen
the Earl Marshal is directed to invite
Mr. H. V. Morton
to be present at the Abbey Church of
Westminster on the 2nd day of June 1923
Rorfolk
Earl Marshal

I packed up and immediately left by air for London. The projectile in which I found myself, a Constellation, shot across the Continent of Africa at a height of 12,000 feet and descended only three times, at Nairobi, Khartoum, and Rome. Then it streaked across the frosted Alps like a homet over a wedding cake and landed me in London within 26 hours of having left the Rand.

I walked out into London (celling stunned. I stood under a gray sky looking up at Nelson in Trafalgar Square, the dust I had collected in Khartoum still on my shoes. I thought what an incredible age we live in. I wondered

The Author

Henry Vollam Morton is admirably equipped to describe the new Queen's London. Now the author of many books on London, the British Isles, and Bible subjects, he made his more as a young reporter in Fleet Street with a highly entertaining newspaper column about London and its people. These columns have been published as a book and still sell briskly under the title H. V. Morton's London.

Among Mr. Morton's best-known books are the "In Search of" series, which began in 1927 with In Search of England. This was followed two years later with In Search of Scotland; others have since covered Ireland, Wales, and South Africa. The latest, published in 1951, is In Search of London. In the late 1930's Mr. Morton became interested in Biblical history; the result was a trilogy. In the Steps of the Muster, In the Steps of St. Paul, and Through London of the Bible.

The author was horn and educated in England, served with the Warwickshire Yeomanry in World War I, and now owns a grape farm in the Cape Province of South Africa. "But my heart," he says "in still in Landon."



C Tables L Bergriphic Society

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Coronation Visitors Feed Pigeons and Dodge Spray in London's Trafalgar Square

Red buses bring daily throngs to see the National Gallery (directly above) and famous old St. Martin-in-the-Flelds (beyond the equestrian statue). Coronation banners deck the plaza, a favorite spot for public gatherings.



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Enterlance by Rip Bert, Satisfied Geographic Staff

Crosscoads of the Royal Procession: the Queen Passed This Spot Three Times

Hub of London, the square commemorates Lord Nelson's victory at Trafalgar in 1805. Broose lions guard a grantte column topped by his statue. Coronation press stands (in blue) await cameras and microphones.

what Livingstone or Mungo Park would have said could they have met a mun in Trafalgar Square who a few hours before had been south of the Zamberi.

Then I took my travel-tortured limbs to

bed and slept the clock round.

The san was shining in the morning, and I had not been in London for three years. Only a Londoner, perhaps, can know how thrilled I was to be back, how exciting it was to look out and see the scarlet buses speeding through the silver grayness of the streets, the thousands of chimney pots, the gray church spires,

the towers.

I loved every bit of it. I went out into the streets. I took taxis. I sat on the tops of omnibuses. I walked down the Mall, where Charles II used to play the mallet-and-ball game called pell-mell, and saw ahead of me the brown front of Buckingham Palace with the Queen's banner on top of it and the scarlet sentries below.

Breastplates Glitter as Guards Parade

Then I saw the Life Guards come jingling down Constitution Hill, their breastplates glittering, their plumes tossing, their black chargers lifting their heads with a jingle of hurnished bits. As they drew level with the palace they slowed to a walk; the bursemen "carried swords" and swung their eyes to the right; and the palace sentries came to the salute with a slip-slap-hang and a slight puff of pipe clay.

A group of workmen stopped hummering at a Coronation stand and looked up to watch the Queen's Guard go past. It has not been called the Queen's Guard since Victoria died

half a century ago.

I must tell you that when I left London three years ago life had touched exasperation point. Tempers, like everything else, were short. People were led-up and browned off. They were also cynical. War was infinitely more exciting than victory, and privations in peacetime were harder to endure. Men reluctantly were rationed reach-me-downs, and women looked unloved in utility gatments; even the buildings were their cloaks of soot with an air of sullen resentment.

That was what London was like, and I began to think that the famous "London

pride" had gone forever.

But now-what a change, what a fantastic recovery! I saw smiles everywhere. A character rather like the now legendary man about town went jauntily along, a bowler (derby) on the side of his head and an umbrella booked on his arm. He was not, maybe, as expensively smart as the men about town of other days, called beaux, mashers, and knuts in the slang of the time, but he was definitely a Londoner. And he was everywhere. The bowler hat, the black coat, the tightly rolled umbrella were like a uniform.

Women looked happy, and Bond Street was elegant again. Every other motorcar wore a little Union Jack on its bonnet. The shops were full of everything the heart could desire, but at three to four times its old price,

From hundreds of billboards, from thousands of shop windows, one face gazed gravely at the crowds. It was the face of a heautiful young woman who wore a diamond tiara and a shimmering evening gown crossed by the blue ribbon of the Order of the Garter (page 311). So the Queen looked out on her London.

It is an applient fiction of all courts that queeus are always beautiful; but I can say, with my hand on my heart and my soul free from the sin of flattery, that Elizabeth II has emerged from her girlhood as a really beautiful and graceful woman. In her expression it is possible to catch an endearing look of her father and sometimes a fleeting resemblance to her wonderful grandmother, Queen Mary.

I found everyone talking about her-taxi drivers, bus conductors and conductoresses, people in the streets, in hotels, restaurants,

and shops.

"How her dear father, God bless him. would love to 'ave seen her now she's such a lovely queen!" was the amazing comment of an old woman in a tobacco shop in Ken-

sington.

It was the first time I had ever heard anyone suggest that a monarch might be expected to enjoy the sight of his successor occupying the throne! But I knew exactly what she meant, and no one would have been happier than that gallant, gentle, God-fearing father, King George VI, to have seen his daughter's triumph.

Why Elizabeth Is Queen of Hearts

I have described London's pride in the new

Queen. Let me unalyze it.

The English people are acutely aware that it was under the rule of queens that their greatest national triumphs were achieved. They remember with pride the age of Elizabeth I and of Victoria; and I think good Queen Anne should also be remembered, for she was the presiding if unattractive genius of a brilliant and splendid epoch."

And now, at the end of a long stretch of postwar depression, there suddenly swings into English history not some elderly masculine member of a royal family but a lovely young queen who is also the elder daughter

(Text continued on page 300)

* See "The British Way," by Sir Evelyn Wrench, NATIONAL GEOGRAPHEI MAGARINE, April, 1949.



Wide-eyed Children Envy the Guard Standing Sentry at Buckingham Palace

What London visitor has not felt his blood surge on glimpsing the splash of scarlet against the sentry box at the royal palace?

Behind the scenes, Seedland Yard protects Britain's Queen, but the Brigade of Guards, flower of the British Army, cherishes the tradition of maintaining vigil.

Fairy-tale splendor surrounds these top soldiers-come tolife in their old-fashioned uniforms of scarlet, gold, and blue and towering bearskin beardresses. Rigid as ice, they stare across the crowds and past the Queen Victoria Memocial.

The charging of the guard delights a large audience every other day at 10:50 in the palace courtyard. There, against martial cadence of drum and file, a new regiment takes over in a ceash of stamping feet and a display of lead-soldier precision.

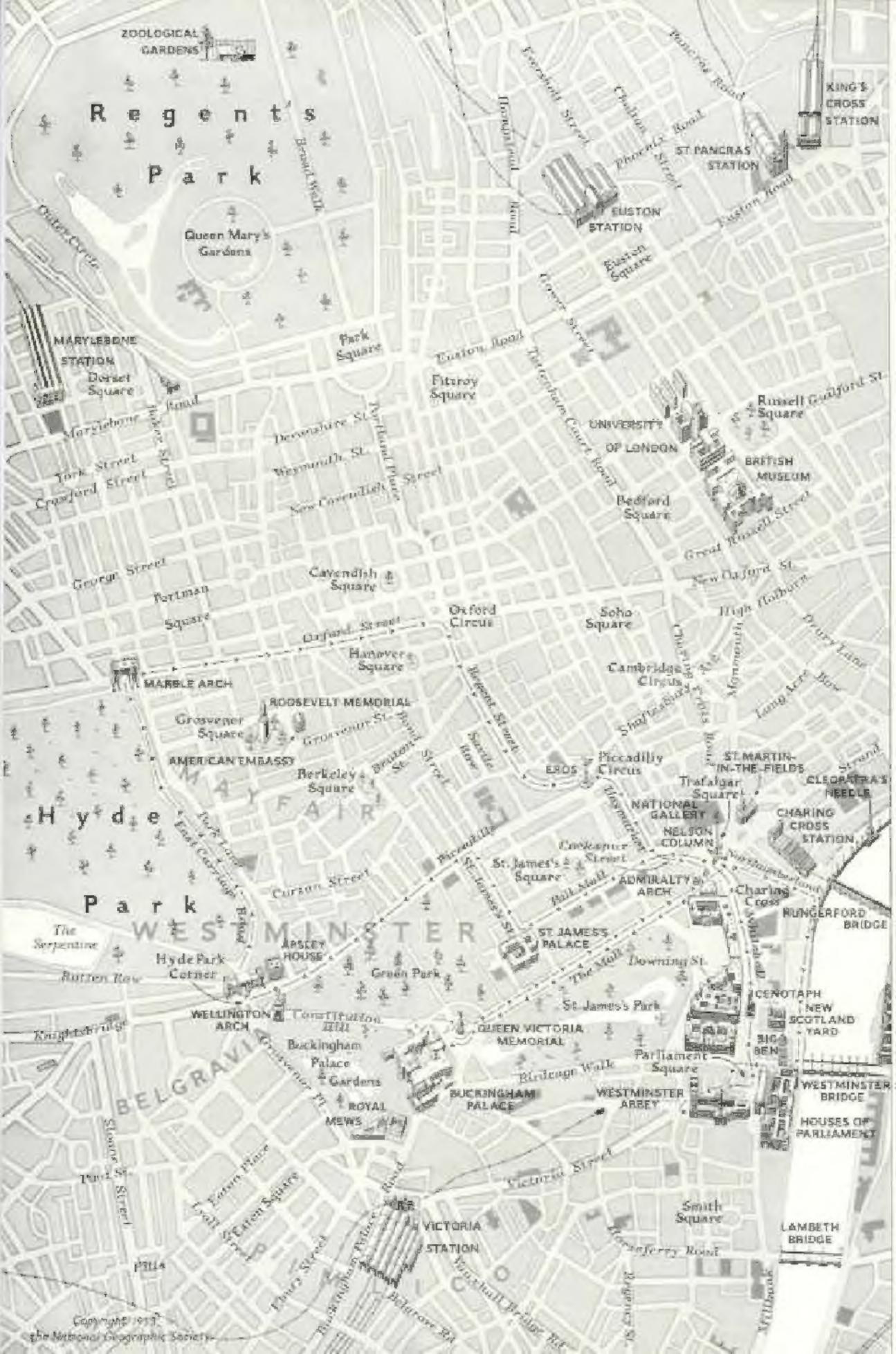
Red plame and eight-point collar star mark this sentry as one of the Coldstream Guards. A United States Air Force master sergeant stands behind the children.

A Gronadier Guard stands under the Queen's new cipher (monogram). Fluming gronade collar insignia and white helmet plume (barely visible) identify his regiment.

D National Companies Society

Extact time by Geneue Voltan from European. Kolashowne to Franc Stort, Satisma Geographic Staff.









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A Gilded Cage in Piccadilly Circus Discourages Revelers from Scaling the Statue of Eros. The winged aluminum archer, preparing to bury a shaft in the ground, was originally a pun on the name of Lord Shaftesbury, the philanthropist whom he honors. Londoners call him Eros (Capid), god of love (page 307).



A Midday Lull Slows the Surge of Traffic Through London's Busiest Intersection

Restaurants and theaters cluster around this pleasure center, whose lights rival New York's. Underground stations here load and discharge 25,000,000 passengers a year. Central building splits Regent Street (left) from Glasshouse.



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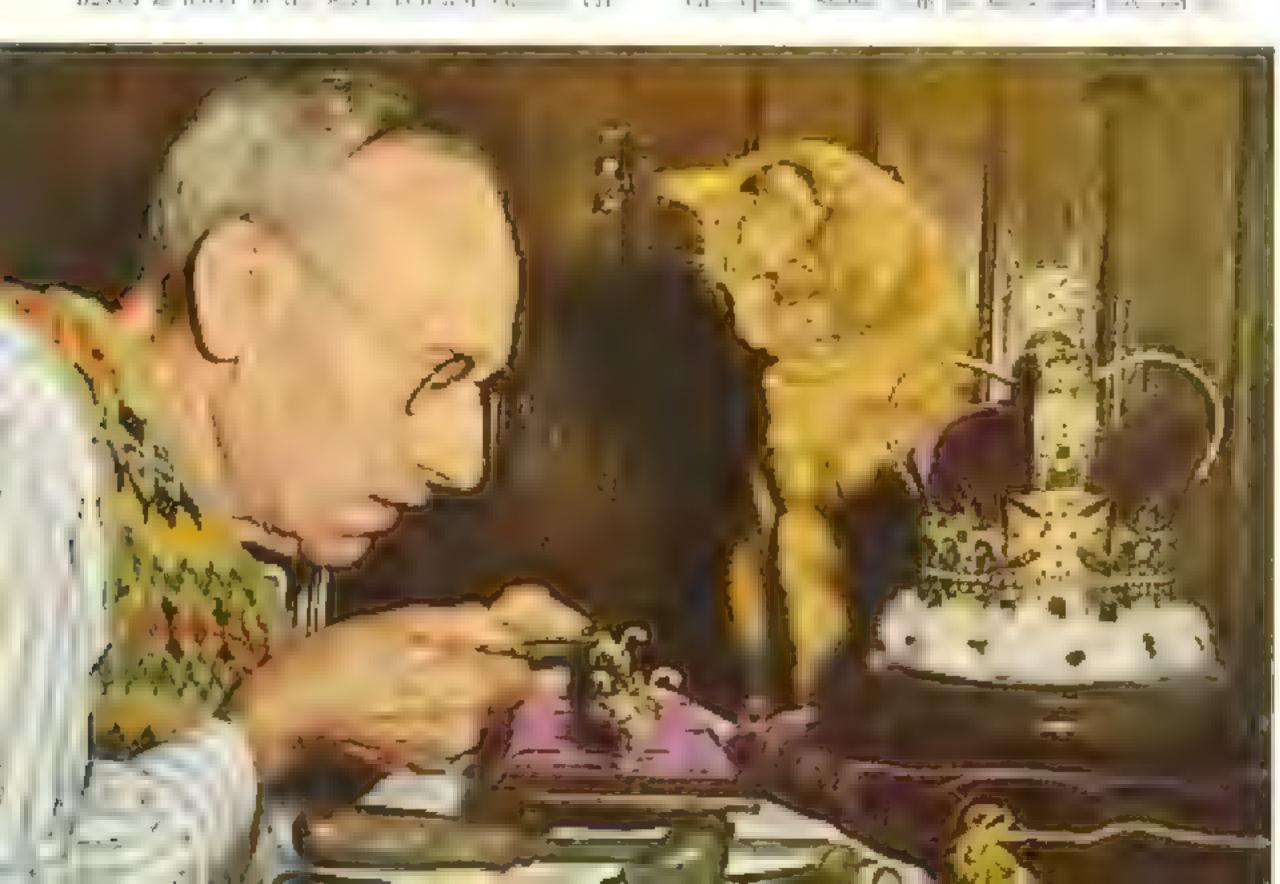
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woman who is fated to go through history called "Bloody Mary," was the storm center of a religious revolution.

So perflows was life that at Is a miracle blizabeth I ever reached the throne. It was so, at first she could find no charchmen willing to crown her. Those arehitishops and bishops not in the Tower called her a "heretic and a bistatid" and hoyectted the ceremony, and the company, and the company of the properties to have died of remorse within a year.

Mary II was never liked, and Anne, ber sister, was welcomed as a pleasant charge; hat all a like a like, and going the in hill to be carried to Westminster Abbey—hardly

an inspiring businguration.

Even Victoria, so plorious in retrospect, came to the throne a young patried girl, and many contemporaries with lefted if she could stand the pace. Her coronation was called to Penny Crowning because it was done on at 1 sp., and even Disraeli, who because one of the plories of her reign, almost fulled to attend it because he are not wish to spen I money on a court dress or get up at 8 a.m.

Let the historian of the fature note, therefore, that Ehzabeth II is the first curen textant in English history to be crowned with aniversal acclimation. And the reasons apart from those of personal affection, are: because the Crown is no longer brooked in polares or relation because since Victoria the Royal Fanaly has presented an idealized patter of the demostic virtues, and because, after years of postwar depression the country feels that fate may have given at the break it so narry desires.

Lundon in Light-heurted Mood

During my first weeks I saw a great real of London. I went to Backinghum Passe. I talked to the Lord Mayor of London. I had ten with the Chief Warter in the Tower of London. I went to Westminster Abley, which was locked up but booker, as though beavers were building a dast inside it.

at alterwards on the Terrace watching the tags go booting up the Thanes with their strings of barges bke ducks with their charks. I sat in the new House of Commons. I saw the Churchill Arch, the only part of the blitzed chamber that remains, an archway scarred and pirted by bomb and fire and preserved at the suggestion of the Prime Minister (page 309).

Sig Winston, sitting in the front row of the Government beaches, was perceptibly older than when I crossed the Atlantic with him in 1941 to meet President Roosevelt off Newfoundland, the meeting that pradated the At-

lantle Charter. He was wearing a bearing aid in his right car. It must have been a good one, for he missed nothing; and I heard rise up and demalish an opponent with a phrase.

I took hundreds of buses and tuyis, I talked to everybody, and everybody talked to me. I got lost, as I always do, in the Underground.

And all the time I was thrilled to be in London again. It was so good to hear a bus conductor clumping up the front steps to the apper deck, fingling the coins in his tag and souting, "Henny-mure-fares-please"; to hear once again the incred by refined voice of a London telephone girk asking softly, "Ken age help you?" And once, when I encountered a real old-time London tasi driver, and he, glanding at the tip I gave him, said in a rich, heary voice, "Hest of luck, guy nor," my cop of happiness was nearly full. I was at home again.

it is my fully to you, unborn author of the fature, to tell you that the London of the new Queen was suffering from high blood presente. Before the bewildered gaze of visitors from every carner of the earth it was throug itself into a fairground. It was like watching some dignified elderly gentleman on a festive occasion patting on a false mose.

Capital Grows Bright with Bunting

As everyone is aware, London exists be easth a gray pail of suspended moisture, we metames it purts to reveal the sum, and then London appears—at least, to me—the most beautiful city of earth. And the gray days and the gold days to lowed one another while an army of workness transformed a city that had only just othersed from mourning the late Queen Mary into a fantastic leby firth of loyal avenues covered with flags and butters

The speed with which this happened surpresed many people. An American womanand to be Back in the States we take about the American know-how, but it seems to me that these Londoners have nothing to learn,"

The Ministry of Works and the 28 Metropolitan homogies were determined that no homographest should go ungarlanded and that no vista should remain unimpeded if a few acres of asserted heraldry could block it up. I disthe decorations, especially in London, but some of them were quite good.

Whitehall, I thought, booked wonderful. Someone had had the brilliant idea of mounting enormous masts, two by two, down the center of the roadway, each one topped by a huge plumed belief of gold. It locked, estantially from I amount of gold. It locked, estantially from I amount of gold. It locked to was trotting down to Westminster.



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The Puritage pulled the Maypole down as a relic of twile heathenism." but the first thing Loudon did when t harles if was restored to the threat was to put up an even bigger and better one in the same place; and there it remains but if the 18th certury. Still monther was soon erected, and when it too was atamedoned. Issue Newton to ugld it as a support for an astronomical telescope.

Piccaultly was suffering from a species of remarchical measles. It was a rash of legalty. All the travel offices had staged little shows in their windows. Fan American World Airways had reproduced the complete Coronation procession in lead somiers. The French toffways had pictured all the French princesses who became queens of linglant, and a Danish travel agency stressed the many historical links between Region I and Dentaurk, ladeed, I thought that an intelligent foreigner, just wandering along Piccardally, could have taken a degree in firstory.

Piccod IIv's Capid in a Cage

The statue of Lios in Piccadilly Circus had been enclosed within an openwork gilded cage that, when hi up at might, was gayer than anything London has seen for years (page 298).

There was evidently a notive in this accordance, for the cage was up arcently nor linch oble. Nevertheres, have was scaled on the right of Coronation Day by two revelers, one a seasonal the other a woodwork polisher, who socceeded in getting inside the cage. When they were charged at Bow Street police station with insulting behavior, the magistrate dismissed them with the comment that perhaps no one had been localted except bros,

It has been the custom of revelers since the Armstke repolitings in 1918 to scale \$128 on every fistive occasion, but h to the amoy-

ance of the pulse

Staticesque para. Its sculptor, Sir Affred Gilvett, when commissioned to create a memorial to the seventh Lord Shafteshury, after whom the near-by Shafteshury Avenue is named, thought it would be appropriate to design the figure of an archer in the act of burying a shaft in the avenue. And that was at first the target at which the statue was aming.

But efficial bord, prosobly disliking puts, in course of time turned the figure round so that the idea is now pointless. But London has taken to its heart this statue (by the way, the first lange one ever to be rast in aluminum), has christened it "Essee" and has made the presiding deity of West End garety,

Anyone who knew Lordon 10 years ago was temember the upple-faced of women who used to sit around the base and sell gar

denias and violets which in those days, and in their words, were "lasty-of lets-appennigs ashmosh?"

But if you wanted to see the groupe devorations, it was necessary, as I told every stranger I met, to leave the official tributes of the West End and to explore the hardreds of Dithe streets in East Hans, Stephey, Bermondsey, and any of the east or so other stern hamighs

1page 302)

There you saw the real thing uninspired by else to the order of the control of the control of the streets hidden beneath flags and bunding, streamers from one little bedroom shang across the street to the bedroom of the house apposite, banners with 'God Save our Queen' upon their, and interest of the other transport of the transport of these broable districts that, during a Silver Jubilee drive years ago, theorige V and Queen Mary turned into a beliagged street and read above their heads, upon a bunner slung across the road the words 'Lousy but Loval.'

To any Coronation visitor it must have been obvious that he was seeing an abnormal London, a cite that had gone gay for the first time in many years and was trying to forget its problems. These problems are the result of the

war and a social revolution

Generally speaking, the man in the street is better off than he has ever been, while the professional and middle classes have taken a big step distributed. I met a friend who was once well off with an income of £4,000 (\$11,200) a year. He is now impovershed. He has divided his house into three flats, in one of which he lives himself, and he has given up his car and other hearties to keep three children at the kind of school he thinks right and proper for a gentleman's children.

Another man who owned as the property had banded it over as a gift to its remark! He could not legally turn them out; neither could be raise their tent, por could be pay for the repairs. He had been losing about 4260 (\$500) a year up this house and was regarded into the birguin as a blooted plutneral

Housing Short Despite Rebuilding

the Landon of the new Queen. The authorities have called a bolt to the outward expansion of London. The London County Council, the governing body of the 117 square rules of the County of London, is working with its neighbors on 20 year plans of development; the hope is that rulny Londoners will faid homes and work in new and expanding towers of the "green belt" and 25 to 100 rules from the center of London.

They told me at County Had (which, by



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> I prived an both or so before the time of ave appropriately and look a walk count the City I was susprised to notice little that . the fire courter to the paste start fore in the ser of the war and the engrowing blitz ! trea round St. Paul's Cathedral and between Cheapside and Moorgate had not been rebuilt. I wandered into the Guild'al where, annal or reable excuement the new Goe and Victor the gratician grants of the City whose (to ease of the thirty of the of the in the metallied in the minsted smaller.

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"It's all my fault!" he exied mererably. "I should have sent them away to safely, but I couldn't bring myself to do it. I condito i Third that the City of Leoub is should be with out Gog and Magag, its gentelians!"

And now (so great moment had purived when, it resultings for the Queen's state wish to the City, two new giants had been installed. There are the work of Mr. David Frans, the sculptor, and are beautifully carved lanewood figures 9 feet 3 inches in height (page 300).

They are grotesque and fierce, as giants ought to be: yet I in and that the staff of the Guildhall preferred the more uncourts oldcak figures. Landoners are like that, 1, personally, thought the new giants a great inprovenient on the old sines.

A Chat with the Lard Mayor.

Wilking down Cheapside, I presented myself at the Mansion House

I was shown by a footman into a trist drawing room whose the right pilesters and cornices were packed out in gold. The Land Mayor, who is a Member of Parliament, a trastresman, and a former, came breskly in, werring the usual black coat and stripe! trovers of a City man. He was interested to know that I was writing for the National Grographic Magazine, which he reads and enjoys.

We discussed his part in the forthcoming Coronation. His robes are of scarlet and estime (page 312). He drives to the Coronathan in state accompanied by his sword and mace-bearers. His heavy coach, which has no springs, is drawn by a team of powerful

dray horses.

"All I have to do," he said, "is to stand near the Throne among the heralds and hold the Crystal Scepter of the City, which, by the way " be nobled, "I hope I shall not drop" "

This scepter, often called the "Crystal Male," is an object of unknown age which some authorities think may be Sason. It is Is inches long the shuft of twisted crystal mounted in gold. It is treed only at corpnations and on extremely rare occasions.

Passing to necesta Lordon, the Lord Mayor fold one that of the City's 303 acres of had a ings 104 were totally destroyed by bombing Nearly £7,000,000 (\$19,600,000) of relatible my has been completed, with but little effect on the appearance of the City. Another £15,-000,000 (\$42,000,600) ha≤ been approved by the City Corporation, but the work has been held up by autoing priorities.

The sight of so many bombed sites in the City is surprising so many years after the war and is in marked contrast with other parts of

London, notably the West End

The City of the rew Queen will eventually

be a less crowded and a better planned place. but no skystrapers are to be light. St. Paul's 5 to be sufrounded by gardens so that the I at a deal may aroud out as Wren, the architest, intermed It to an unduttered by neigh-

boring buildings

The problem of reconstructing a crewood area like the City, of reconciling town panbing with private proceerty rights, and of providing adequate parking space is a consplex one. During a recent census it was discovered that 5,600 cars are parked every day or bombed sines. The new buildings are to have underground garages, and some, in crowded limes, will be given electrically driven. turns there that will enable cars to drive in, turn round, and get away

While we were talking, the Land Mayor's valet came in carrying the scarlet Coronation robes, which Sir Rupert put on. It was at this moment that I noticed the improbable figure of an American sergeant, in uniform standing beside a Corinthian eclaron, hobbing a fishing coul! The scene was one that reminded me of Lewis Carroll or maybe Salva-

dom Dalfi

"Yes, he's there all right," said the Lord Mayor, "and his name is 5gt, Mayourd E. Hasner. He has come over for the Coronation bringing me a fishing rod made of span glass, with the compliments of the Governor of Michigan and the Mayor and citizens of Kalamazao **

In this pleasing atmosphere of funtasy I said good-hye.

"Marder" at the Tower of Landon

I walked along to the Tower of London to look up are old friend, Mr. Cook, the Chief Warder. I found him in his office a few yards. from the site of the beatsmen's block on lower Green. The new partisans, or pikes, carried by the becteaters had just arrived, Learning the new moral clipber, EnR

"How do you lke it?" asked Mr. Cook,

hamiling the the head of a partisan.

"N'ery nice, "I replied

"Well I'm not so sure," he said, his head on one sile of think the E is too upright and well, too mascaline!"

Hang ng on the wall was a document which can have no eignal in any guardroom on earth. It is beaded 'Ravens."

As all the world knows, these birds have been kept in the Tower of London for centuries. They hop claims ly and often angeily about Tower Green, creaking at the Tower cats and at visitors (page 308).

This document was their official roll and conduct sheet. It gave the pame of each Lind, its namber, and its ralitary career. It

(Text continued on page 330)



A Quarter of 1 such's People Hail Luzabeth II as Queen. Among Fiters Hallip Her Hasband

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In Connation Robe, he hard Mayor of London Sits for His Na out Geographic Permate see Fine to the Association of the history of the house the formation of the first seek that the first seek the first s



The O'clock at the Morning Inplicit Lody Huntly Drew for Corona, a Day to the United States States May, a company to the Lotte States and the Control of the

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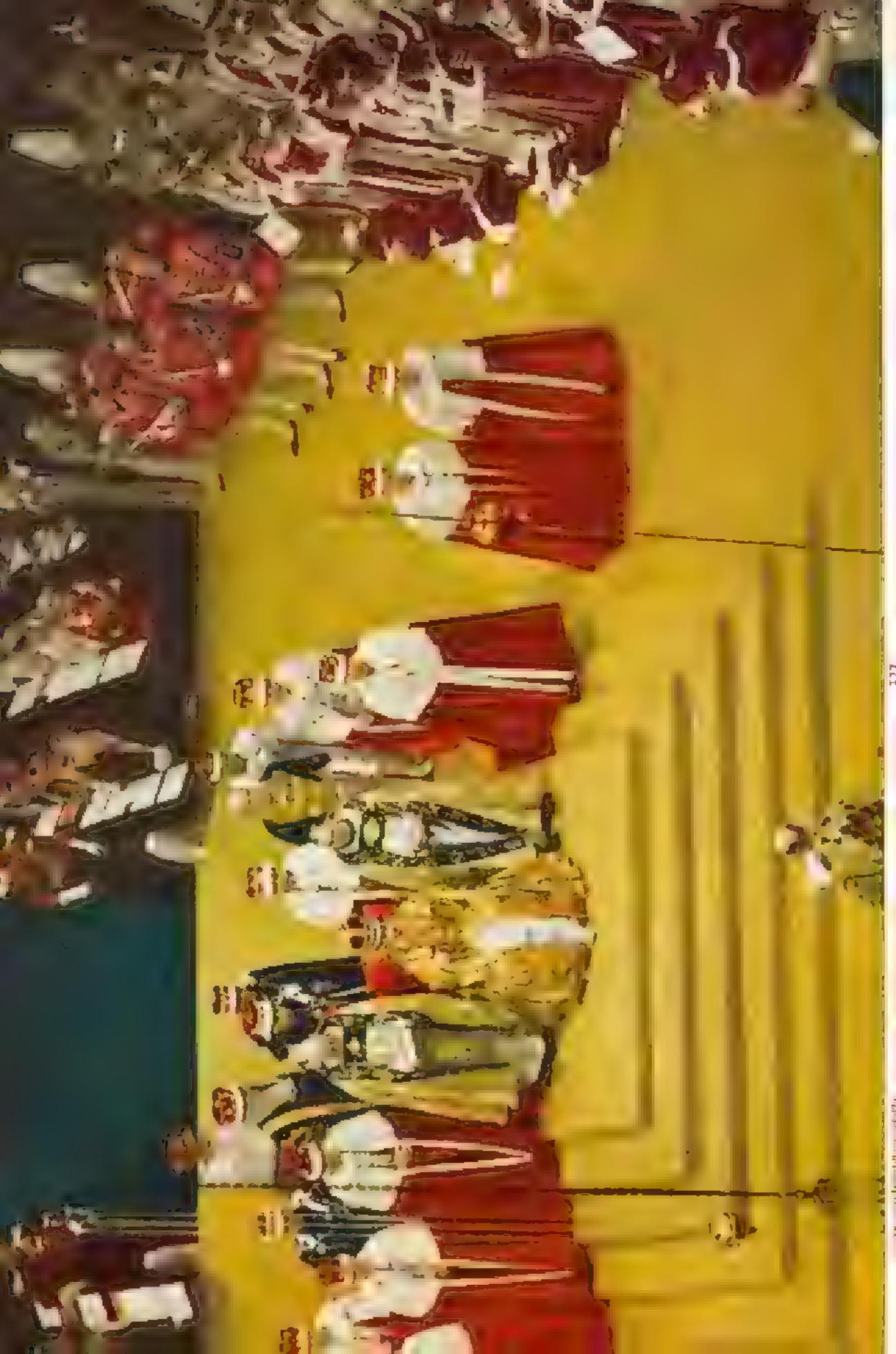
Fleabach Is Crewned. Steats Rock the Abbey: "God Save the Queen."

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The Aredeshop Addresses His Queen, "God Crown You with . . . Glory"

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Reval from Grands March Up Wiercher, and Soon a Pred Tribed a Soprate Branch Ever appears a result to the contribution of the first appears as an experience of the second contribution of the second contribution

began with Nigger, who "died of shock duting the 1940 air raids, aged 18 years." Then came Maiel, who "disappeared mysteriously August 1946," and Grip, who also "theappeared mysteriously, September 1946."

"What happened to them?" I asked.

We never found a feather," replied Mr. Cook.

The next entry converned Pauline, who died from himles, a used by Mahel and by Grip." Short and Towerske was the comment on the fate of a bord named Marlimski—"botted murderer."

The present savens are six in number and have been named Cora, Coraz, Guna, Garvie,

Charles, and Cronk.

I learned that the Beelenters were having revolver practice in preparation for their all-night vigit on the eve of the Coronation, when they have to guard the Crown Jewels in the Jerusalem Chamber of Westminster Abbey. I smiled to imagine these Tuder figures armed with Colts. Mr. Cook too, the that the Healaf many them with submarbine guns had been him bored in view of the possibility that, should anything happen, the Beetenters might should anything happen, the Beetenters might

Toppers and Turbans at the Pulace

As the day of the Coronation approached, I teceived an invitation to a parden party at Buckingham Palace. This meant a visit to Moss Bros., the firm of outlitters known everywhere in Lombon as "Moss Bross." They can, at a moment's notice, ricess a duke of a field marshal or turn you out, complete with court sword, looking like a character in a comedy by Sheridan. They told me that within a week of King George VI's death all their peers' robes had been booked.

That a peer slowed hire his rones is not no essably a size of insolvency. When the first 11 suboth was queen there were about 50 temporal peers; now there are about 800, most of them basiness or professional men. These costly robes are essential only at a carchation, and it is obviously much more

sensible to have than to buy them.

to a day or so I strolle fronto the wide away of buckingham Palace wearing a gray Ascat topper and a well-cut morning coat. I suppose hundreds of my fellow guests had drawn

their spierdor from the same source.

The scene was a remarkable one. The lawns were trawded with several thousand people from every part of the world. They work every imaginable costume. I saw African thiefs walking beneath their state trablellas; Burmese princesses; Indian women in yellow, saver, and magenta satis, pentlemen in glittering turbans and gold transers and I felt that there must be quite a lot of

the Empire still left (page 50t.) A guards bond played in a marquee; tents and pavilions stood ready to provide the guests with teal cakes, and its cream

The ritual of a palace purty is always the same. Those guests who are to be presented to the Queen are segregated by the Lord Chamberlain. The rest stand round and rubsbetter k. Suddenly every top hat is defied, a band plays the anthem, and the Queen is standing on the fawn, the Dake of Edinburgh beside her.

They wank slowly round, and, as they pass, the mee lift their hats, the women curtsy. The guests are shameless in the r curtosity, home even stand on chairs to get a better view.

When the myal party has retired to its marquee, there is a pointe but tough fight for ten and cakes in the other pavilions. The hand plays Gilbert and Sullivan. Photographers mounted on the palace most with enormous Big Bertha lenses take long shots of the guests, for no camera is allowed on lawn level.

After about two hours of polite similing to and fro, a long line is formed, the Queen passes back to the palace, and the party is over.

While this was going on, I was hanting for a nullberry tree. I have it on the best authority that one trulberry tree still remains in the palace gardens, a relic of those planted there in 1009 by James I in an abortive attempt to create an English sith industry. But on the rare occasions when I have been in this garden I have failed to find it, and I failed again

That was how Buckingham Palace began; a mulberry garden that soon degenerated into a kind of readhouse where the gallants of the time of Charles II used to take their lady friends to eat mulberry pic. Pepys called it

"a very silv place."

Though I failed to find the tree, I came across a sight that might have been seen in any suburban garden. It was a children's sand pit from which obviously Prince Charles and his sister had been whisked off to the pursery before the party began. Like at the party began, they had found an old wooden kitchen spoon, which key stack in the sand just as they had left it after making sand pies with the half of a large Easter edg.

Loudon Learns Atom-bomb Defense

As a contrast to these exalted moments, I changed my gay attire and went that night to Hammersmith with a friend who lectures to members of the Civil Defense Corps on the atom bomb. It is interesting to know that while, to the superficial observer London.



Spect ters Paid Up to \$350 for Claime Sears Like These in Pall Mall Stands

The desire as a first term of the second sec

seemed incopable of any other thought than the Caranatian, 33,000 Londoners meet all over the Lunden area once a week to study how to save the lives of their fellow citizens. In the event of war.

We entered a room in which a number of men and women—ardinary shopkerpers prisans, and housewises—were studying instruments issued by the Home Office to detect the presence of radioactive dust. They were all keen and interested. I was told that some of them were old air-rold warmens. I thought that to attend these classes in practime proved them to possess the highest possible sense of riving responsibility.

I was so interested by this sidelight on London's real activities that I went to the Home Office and found that they were not satisfied with their 33,000 arr-raid volunteers and were thinking of a recuriting drive to obtain at least 100,000. The secret War Room of London's Civil Defense is standing ready to be

manner at a moment's untice.

I was taken with a group of visiting generals to see the War Room, but I am not permitted to say where it Is. I can say, however, that it is far underground. We went through acres of air-conditioned corridors into a complete rabbit warren of rooms all ready with

telephones and teleprinters.

The War Room itself contained three large maps of the London prea on which coornous disks, used for practice, denoted the devastation caused by atom bombs. This room had a complete link-up with all Civil Defense utganizations, with the Army and the RAF, the police, hospitals, and other relevant bodies, and could, I was told, be in action with 17 local authorities in the London area within 24 hours.

Outdoor Dining Where Bombs Fell

I have indicated that in the past three years fondon has pulled itself together in a metable manner. It has definitely entered a new era I saw around me many new signs of the times. For instance, London is now full of little restaurants run mustly by Cypriotes, Greeks, or Italians, and these are no longer confined to Sono. They are an inducation that in these servantless days the Londoner, whenever be can alloted to do so, eats out.

On the Lombeo sites, especially in the City, I saw many little continental cafes where typists and City fold can eat beceath gay striped umbrellas which blossom the moment the san shares. The subt of Londoners thin ing out of doors is a novelty.

I had the delightful experience of being shown by an American visitor something I had never seen in London, although it has been in existence for 15 years. This was the Derry

Roof Garden stop one of Kensington's largest department stores. I doubt whether the Hanging Gardens of Balodon were as beautiful or as canbitions.

Here, 160 feet above London, are an acre and a balf of flower beds, 20-foot-high trees and flowering shrubs, with running water fall of goldfoot and Japanese carp, and lakes on which organizental darks are swimming. There are a Moscish Garden, a Todor Garden, and an Old English Garden, all planted in two feet of soil that is changed once in 12 months. There is nothing to remind the visitor of his position on the enot of London but the close companionship of neighboring church spires.

Dake Gives Mansion, Lives in Attic

Los for were better than ever, and I was deaghted to solve what has been a mystery to everyone of my generation. The Duse of We lington a someer mansion, Apsley House, at Hyde Park Corner, known as No. 1, London, has for years been one of the enigmas of London. It was always closed and apparently bioless. Now it has been presented to the tration and is open to the public.

Its presentation was unusual, and a special act of Farliament was passed before the nation acquired it. By the terms of this act, the present Duke of Wellington gave the man-sion and its contents to the nation on the condition that he and his descendants should occupy a flat rent free in the attic!

So the splendors of Apsley House, beautifully restored by the Minustry of Works, are usible to anyone who pairs a shilling, while His Grace lives upstairs in quarters on e oc-

canded by the family servants.

The house is one of the facest sights of modern Landon. Its ground floor rooms are full of the massive and costly trivates shows ered upon the fron Duke by a grateful Furope upstairs is to be seen the famous Waterlaw Gallery with the enormous table at which Wellington entertained his generals at dinner of the anniversary of Waterlaw

It is just a century since the Iron Duke aird, and perhaps on more il uminating commentary exists anywhere on our changing world than this specious mansion with its suites of superior rooms and galleros, which were the usual background to a duke s his are not 1853, and the flat in the attic now occupied by the duke of 1953.

And now I come to the Coronation. I acquired two curious little sidelights on this great accasion. While I was udmitting the splends, royal gray horses which were to pull the goloro coach through the streets of London I asked the superintendent of the Royal

(Text continued on page 149)



The Young Orient and The Prince of a Colded Coach So le an Thir Admirera

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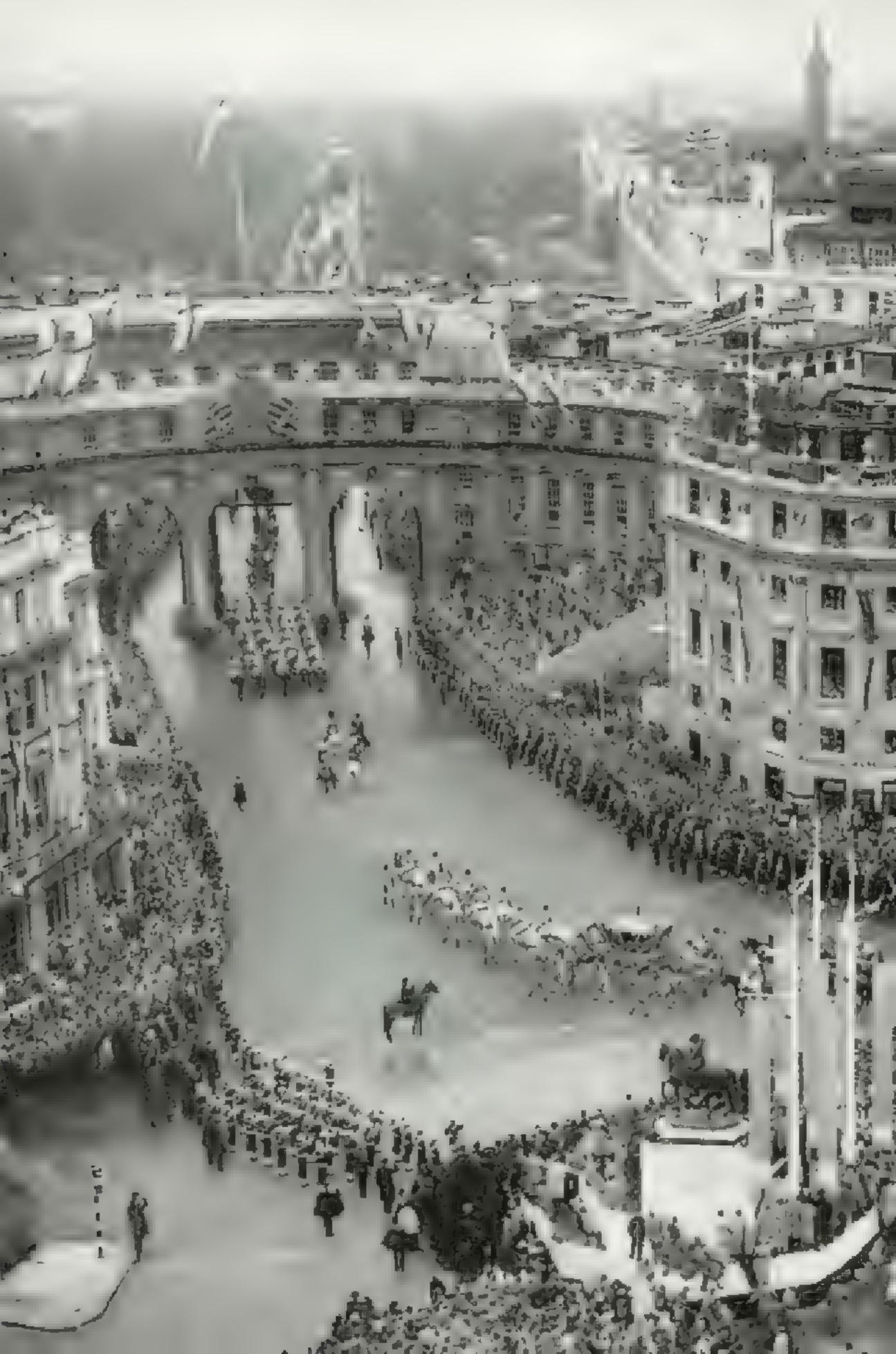


Royal Canadian Mounted Police Reach Parade Route's End at Victoria Memorial Circle Circle Circle and the product of the second bound to be and the product of the second bound of the first of the bound of the first of the first of the bound of the first of the first



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The Queen in Her Children Chach Bears the Last Lord a Teramphal Four

The second the second s



Mews to tell me their names, I found that the offside wheeler is called Lisenhower! His companion is Cunningham. The other six are: Tovey, Snow White, Noah, Tappetary, Leider, and McCreery. For a day these were the most prelibrated animals in the world.

Holy Oil Saved for Generations

My second inquiry concerned the holy oil with which the Queen is mnounted. It is two act of unction, not the act of crowning, which is the essential feature of a constation. The anxiety of early kings was not to be crowned but to be anoisted by the Church, and until his appened they are of the theory of the young taked of the 'hallowing' or the "oiling" of the monarch, not of his constation

I had defeat the consecrated oil is kept from one commution to another. Victoria reigned for so long that the surplus oil from her anointing had become granulated by the time of her death. A new supply was therefore made for Evound VII, and this served also for George V. New oil was made for George VI, and this supply would have been used to anount the present Queen if it had not been destroyed when the Deanery of Verminster Abbey, in which it was kept, was burnt out Juring the nir raids

The maker of the oil for this Coronation, I learned, was Mr. J. D. Jamieson, who is a muested with a well-known firm of Bond Street chemists. The ancient recipe came into his keeping from Sir Peter Wyatt Squire, whose ameest it make the oil for the coronation of Queen Victoria.

There is considerable mystery about this recipe, which Mr. Jamieson has now lodged for safety in the muniments mom of Westminster Abbey. He told me that he made the oil last November on Sundays when the dispensary in Bond Street was empty. As a preparation, he gave up smoking for a month in order to increase his sense of smell, for suce the first Elizabeth complained that the all was "misty grease and smelt ill," it has apparently been highly scented.

The Queen's Goods Rods Across Parliament's Wet Sindow

Two todas of sten and gate, horses and catchess, or tare and described stretch about as Edzahed leaves the Atches through the corner at meht, to great the expectant malitances. Here my power Parlament's Victoria Tower, scalabled for returbishing Postdings areas white riding four of the eight Windson grave; no conclumen could safely manage the 14-root, four ton carriage. Walking graves accompanying each horse corry grooks to lift up traces when turning corners. Yearen of the Guard (on right) wear embluoned hats, dt ublets, and ruffs. The stands are tifled with potables

C Surfaceal Congruent in Section . R. Anthropse has W. Edward R. ocher.

The formula is a secret, and Mr. Jamirson said: "The recipe made all the textbooks on solubles look extremely foolish. It was real bard work. The formula is almost the same as that used for the anointing of Charles I, but I am not allowed to divulge it."

He did tell me, however, that it includes the olis of orange flowers, of roses, cianamon, jasmine, and sessine, with benzour, musk, civet, and annuergels. It has a rich and pecular smell, is number colored when freshly made, but takes red lish with time, and the scent improves with nee.

Rain Fails to Dampen Loyalty

When the great day arrived, I rose at 5 a.m., dressed, and found my way to Westminster Abbey. It had been mining toost of the night, a malicants wind whipped round the street corners, and it was chilly enough for snow. I had pever known the weather to behave with such disloyalty to the British monarchy. I felt sorry for the crowds who had spent the night in the streets (page 303), and for those who had come at great expense from distant countries, to encounter this depressing morning. But the excitement and expectation of the crowds were such that even the rain was soon forgotten.

A bland man could have told that the early-morning streets were filled with thousands of people. Above the sound of gents and tax engines came from every direction the burn of crowds

The Abbey was transformed by blue hangings and floodlit carpets. I was shown to my seat by a colonel in full-dress uniform, scarlet tunic, tight averalls, and her spars; and I wan ened where I had seen him before. Then it occurred to me that he might have but. For I had, Seen that he might have presentation of all that is been and most cable in I mass's largened who was always "playing the game" and not letting down the side.

Then I realized that the Abbey was ful of Aubrey Smiths, both young and old. They clanked about in spurs, holding swords in kid-ghoved bands; they stole noiselessly about the church in black satin or velvet knee breeches and court dress, raplers slanting from their coattails. How efficiently the Earl Marshal had sacked the military messes of Abbershot and the tours of the West End to discover so many British types was, as Gold Stick officers, or ushers, marshaled a gathering as brilliant, as dazzling, and as British is thenselves.

Why, I wondered, does a peecess wearing bear where and loves almost to be a short lers a tiara on her head, and her subvectored ermine takes trailing on the carpet look so

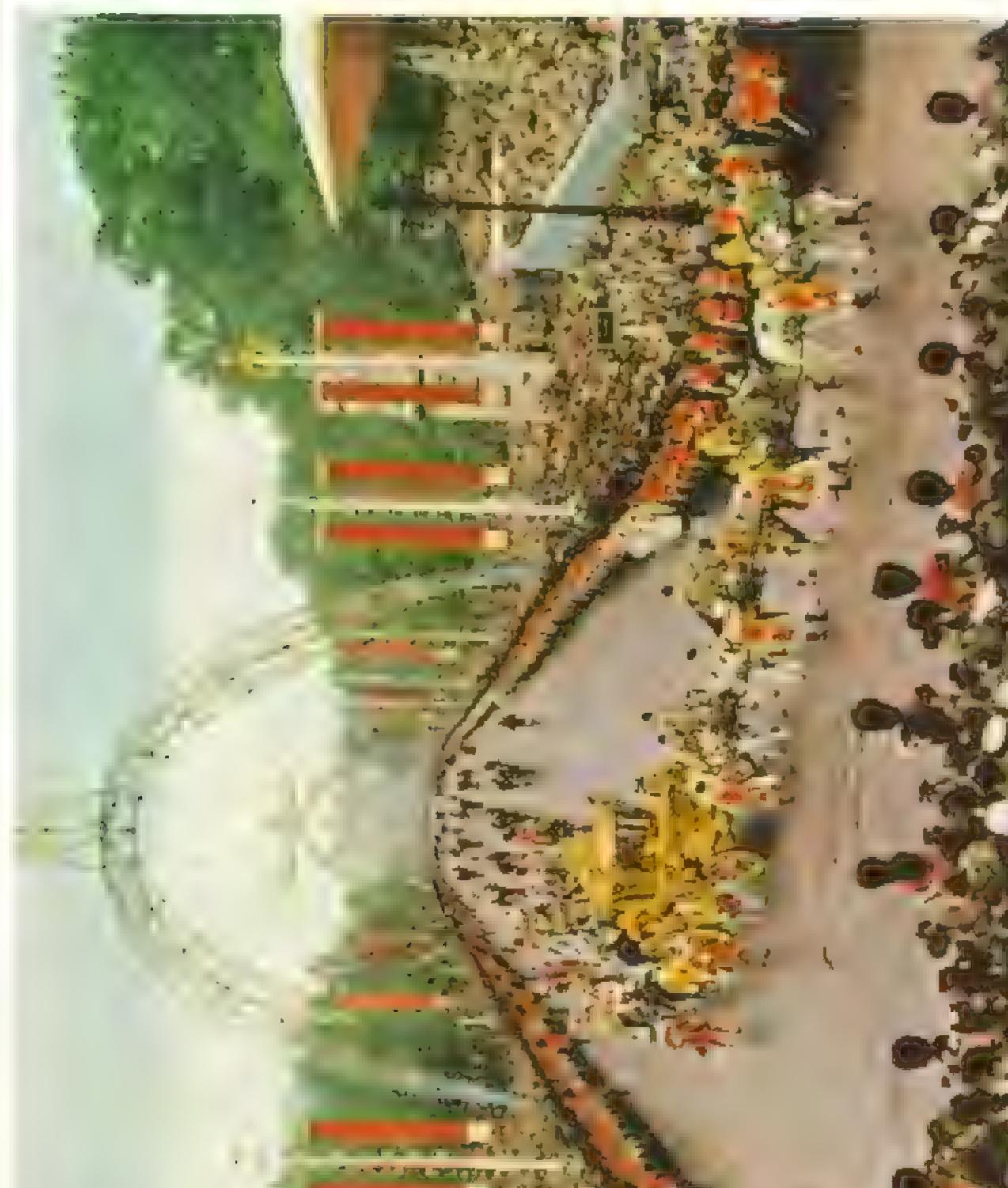


Memory of the Brand Serve by Cross rips Francy Vi., I

The total of the line of the total of the to

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exquisite, while her Lusband in his regula

appears faintly comics

I gazed at the prefesses in and tenent It handly seemed possible that these superbly poised creatures had ever mashed up a wish or made a hed, while the peers, who set opposite in the south trunsept, looked as though death dubes had never been known and only and possessed an enterious estate, a crowd of loyal traums, and a vist hause designed by the Adam brothers.

Could it be possible. I asked noscif, that these magnificent persons were the man who for the past 30 years have been giving away

their houses to the National Trust?

Women in full evening dress at 0:10 a.m. are never at their best, or perhaps at their sweetest, but they carried it of wonderfully, and only their decorative legsbands knew what had really been said at the dressing table at 4 or 5 o'clock that murang'

Great Abbey Fills with Splendor

Granguade the whole chatch fided with proroused's and ambassadors, with admirals and generals, with oritins and tulers of every hur. Upon a floodfit acre of gold carpet before the altar the Fact Marshal and the Oreat Officers of State moved, training clottes of clory, while every is we and then the heralds-Simple of the little of the and the state of the first of the state of pack of cards-appeared in their quartered tabards turned inwards, and howed as they showed a new rueather of the Royal Family into the royal how. And all the time a great crehestra mountred on the ocean but filled the church with the splendid solemniths of Handel

At hist came the moment which must have tourhed the heart even of a cynic. All alune in the solitude of a great destiny stood a young woman in a white dress beneath the floodlights on the golden carpet. From hidden vantage points in concealed boxes television and film gameras were at work. The Oneen of England was standing before the whole

world (pages 314-327).

No man I thought, at such a troppent could have believed with such composure. Her bearing was a credit to all queens and to all women. And as I saw her I confess that my heart melted and I knew that I was in the presence not only of the daughter of George VI and our "undoubted Queen" but if Victowa, Anne, Elizabeth I, Mary Tudor, of Great Entry himself, of the splenoid Plate lageness and of the far-off Normans.

When the trumpets split the nir la trlumph, they seemed to open the gates of the past and to all the church with cowned and steptered ghosts, each one with the word "Eugland" on its lips. I wondered if she were conwith a of them. They were all round but, watching her with grave faces and experienced 化力增多。

Hidden by the tapestries and the bangings juid connected, by title of lauxes were the tomic of her retunde americas. Rehind the ultur was the grave of Edward the Confessor. who died reatly 400 years ago. Round him in a circle were Henry III, who light the present Abbey Church, Edward I and boward III, these great warriors; and Richard II. who toes there with A me of bohemin, the wife to beed to distriction,

how strange it was, I thought that me young woman in a white dress standing before the ultar of Westminster Albey could symholige 900 years of a malion's history, its successes and its failures its aspirations and its rireams.

I saw a slow wave of gold brounds sweep up and surround her as the archaishops and the histops led her to the Commution Chair. A golden camppy hid her from view as she was signed with consecrated oil upon the hunds he breast, and the head, and became from that received "the applicated of God." I saw

them dress her as if she were a Byzantine saint an an icon, until she sat we gated down with go den vestments, the Rod in one hand and the Scepter in the other. In the head of the Scepter the Great Stur of Africa, cut from the Culdnan diam and, writhed with fire and

sent out flashes of blue and red light every serond like a lightfouse.

Relia, Voices, Guns Salute the Queen

Then the Crown of St. Edward was lifted high part placed upon her head, and instantly a great cry went out to Gud to bless her, the hells of Westminster began to ring, and (ar off in the Tower of Levelon the guits fitted a cafore. Elizabeth II had been crowned.

I watched her busband larget before her and swear homoge in the exact formula used in the days of chevulty. She sat stilly, Lechands beld together the fingers extended. He placed his bands within hers and swore to be true and hegal to her all his life. And the stiff, glittering sunge who was his Queen, his wife, and the inviter of his children, lenked back at him gravely and saw his bent fair nead without a smile. Then, rising, he quickly injoked the crown and bent forward and kissed her on the cheek.

Though utterwisely I stood in a well-street outside the Althey and watched her pass in the golden coaca, the Crown upon her head the Scepter and the Orb in ber hands. I felt as one feels for a hade at a wedling, only this bride had been married to England. All the church Lells were rittging, and so the new Queen drave out into Eundon.

Men hers who wish with though copies of the issue. concutains, the nationic reserved is adequated the Carquation for throuselves of their tolerals may obtain them from the Sational Geographic Somety, Washingtra for D. Co, as being as the finited outply laves Prices in the United States, U.S. Possessines, and Canada bid eacht derwaute lie - Postage prepaid.

Statherstern Arizona Keeps the Dudes Happy with Cowboy Styles.

Cactus Forests, Ghost Towns, and Live Indians

By MASON STTHERLAND

Assistant Editor, A Manual Geographic Magazine

FLEW out to Tucson to investigate southers. Arizonaly one the charge, so thin, copper, and cattle. My observations on the climate—it was a short-sleeve day in Febmary—were interrupted by a burst of gundre.

Tombstone's Vigilantes were shouting up the streets of Tucson. Disguised in black beards and armed with six shooters, the visitors were advertising the Firsts de los Vaqueros. Tucson's annual rodeo. Firing fusillades of blank cartridges, they enacted the shooting of Waro-Bill, an old-time despetado (page 357).

Next day every man, woman, boy, and girl who could scare up a horse rode in the rodeo parade. Others stood on sidewalks or scaled ronftops to watch (page 351). Mayor and sheriff shared honors in the procession with horns Black Bast the bandit and Geronimo, the outlaw Apache. Real cowhogs and Indians vice with Air Force and high school hands. Cam in dancers flowered skirts aboard a fleat, and harros pulled covered wagens. But the most popular figure, I judged by the small boys' applicase, was Hopalong Cassidy in person!

So many visitors—5 to 10 thousand—were in fown that every botel, motor court, and

quest ranch was packed.

Nearly every non and boy on the streets was dressed as a Wild West character. Those who resisted the style risked public exposure in the Junior Chamber of Commerce's mabile lockup, the Court of Injustice, whose attendant Vigilantes made metry by firing paper bullets at one another's hats (page 344).

A Style Revolt in the Desert

Even store-window dummies, which the week before wore evening clothes, blussomed out in the western look. One maid of plaster roped her man amid bales of hay in a glassed-in barnyard.

I saw two women, one in sun suit, the other in fur jacket, escorted by a man in gambler's-

stripe su t (page 352).

Inst dude in polished yellow boots came out of Hosten a week ago. Had be been a cowhoy, his boots would have been scurred. The "casual" rumple in his 10-gallon but was steamed in

Tucsum uses wearing appared to munifest its independent spirit. A party hostess specitying formal dress is lucky to get a third of the men in turndos; the others arrive in blue Jeans, frontier pants, or plain business suits.

I watched concert-goers variously attire in white tie and tails, tusedos and black tres, tropic whites, and blue denims. Feet were stuffed into shoes, boots, or morensing.

Women's standard house utesses are debnitely out. Fashion favors the squaw dress, the smart scamstress' modification of Navajo apparel, which the modern Indon sick scorns

Go to any square dance and you will see squaw dresses ballooning out with centrilugal force. Heavy belts flash with polished silver

Visiting Porter's, a specialty store, I had as guide a saleswoman clad in boots, femilier pants with wide front pockets, and a short instead with cowboy's snap-on buttons. She were a little vaquero string tie.

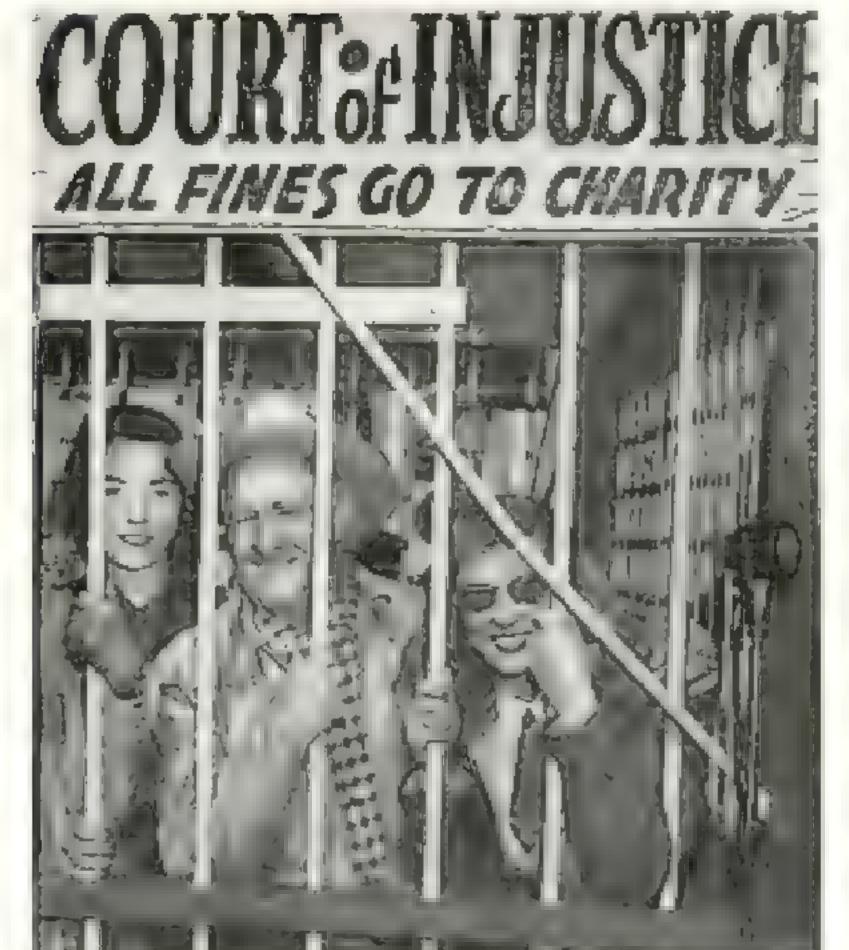
Houses Wear Desert Colors

Inspecting a leather shop, the Kaihab Buckskin, I found Hopi Indians making Navajo moccasins, here called squaw boots, a popular style with both men and women. Thick and heetless rawhide soles, quickly conforming to the shape of the feet, give the sensation of walking barefoot without running the risk of upended tacks.

Similarly, Tueson revolts against architectural styles which do not fit the desert scenery. Newer banks discard the Greek-temple style. Decorated with water colors and potted plants, their it teriors look like fashion sueps.

The typical Turson country house is a long rumbler without basement or attic. Walls of burned-adobe bricks may be paneled with wood painted in desert colors—paloverde green, sunset pink, or the aikali gray of a comman's bat. The ceiling may reveal a liver of prackly stems from the motific, a desert plant. Floors are comented to discourage termites, a surprising scourge of this arid country. Strings of dried red peppers hang beside freplaces built into corners.

Big picture windows had, out upon mountains on every side. In the yards barre; racti from southward like inverted compassociality to entail the most sun (page 354). Feathery leaves of paloverde trees brish against windows, their branches remaining green to absorb the sunlight. Scarlet tips of occillos dance in breezes, and salt cedars trail gossamer evertireen occiles. Most artimatic of all, droopy-armed sagunros stand in penguin postures.



Roden's Prisoners Have Fan in Jul

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The Saguero: Naturo's Water Tank

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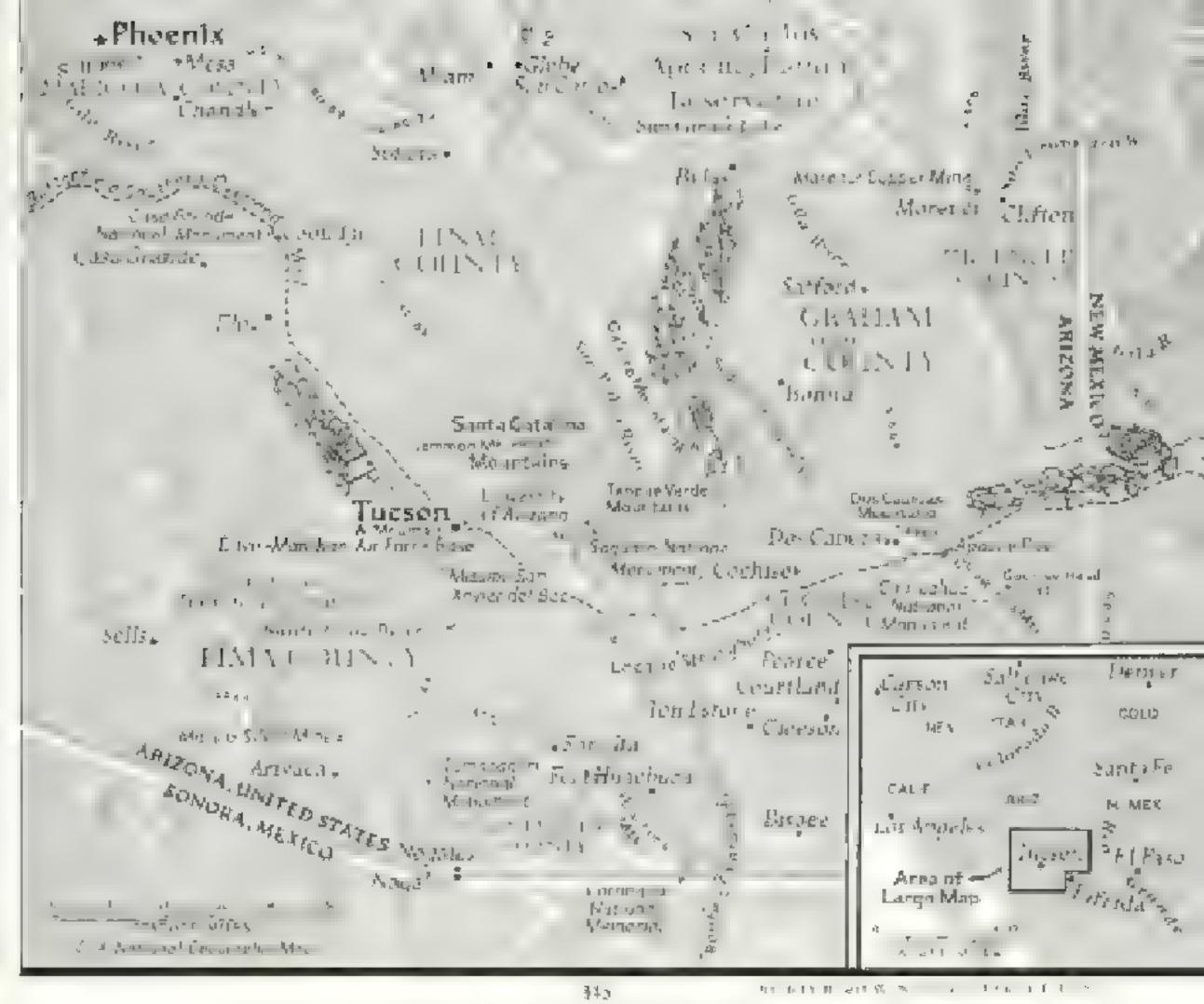
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piration, I wondered was a writer have: But Mr. Arm Id cond-sed prumpiness due to be. In to plot a super of a new loose. The Torm of the Group:

It's that confount of desert," he said. 'It's my inspiration and despair. I malife a constant of a all so a index in age of time. I can't know a mind off the attractions out there. I'm always watching a condense of some one in the long a first line order to work I have to draw the shades.

"Nothing could have from now a ser to me than this desert." he are the or had a light torn amic the brills are sere at Marchettain all and there is no are a filler.

from Steel William Graph of Manager Co.



Land of Change, Cotton, Copper, and Cattle-Southeastern Arizona

Here Increase prowl the five-und-term dudes pick chicus them, but of their brownes, and the san charge all white. National lores a short towns, and allow with all blood into mountain and desert seniory

during the war I left Wyoming in a bluzard and next day found Tueson basking under a warm sun. I found I could swim in winter instead of freezing. Like many mother some, I said, 'This is the climate for me!

"At first I (upod the desert as harsh and repellent as hare granite. Suguero and ocotillo I aked as incredible as passes on the moon. How could I know that in spring they would put out del cate blossoms! In winter the desert was as stern and masculine as a mad-clad warrlor. Blooming, it timed into a frilly little garl with a lei around her neck,

And so, without realizing it, I was exposed to something like an insulation around the grew to like the place. Today the feel of the desert, the look of the mountains are closer to me than anything in the worl! The desert is ny peace and solace. An one are it sand and solitude, it is as wild and uppresent are as the sea. Sometimes I get the feeling of trespossing. If I leave the place

for three mouths, the desert rushes back like a tropic jumple to reclaim its own. Scorpains and black win ow spiders take over. I think, basically, that man will always be no alien here. Oldy, that's part of the fascination,'

Dudes Enjoy Blizzards Back Home

Tueson's elimate has been described as "tenmont is of a comer and two months of nowinter." Intense sunshine is the city's growl fortune in winter, its misfortune in summer. The sun shines nearly every day of the year.

To enjoy a Turson winter to the hilt, I recommend satting in the putio of a guest ranch and talking about the winter weather back home. Guests at the Westward Look ranch, where I stayed, branged about our home towns' blizzards and secretly, I believe, wished our stay-at home friends some of them. We forgot the world's troubles; few of us read a paper or heard a newscast. Getting a February santan segme! once important



These Once or Adobe-walled Village, Grown that-of-bounds in All Directions

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The state of the boasting a state to the page 13 1331

some of many extract allergic to horses," and bocart M. N. in the horse the property something the main house so the very and a second the main house so the very and according to the second the seco

from restriction that he are comment of the own is not followed by assignment of the following the first section of them now a realized to the following the

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or reavy to a selection and which is the countries vice and the party which modifies there is a selection of the Company, which does and manufactures electronic equipment which for the United States Air land a page 371, 577.

Big Bombers Fly Out of Tueson

than Air Force Base the 15th Air Force ceps it will and b-47 a critic but war.

In a state told the "through we are transmit and the total of the size of the publishes and a makers of the latter of the Sireth was builded and tomorrow, out planes could rebuild the part of the Third was a maker to the Sireth was builded tomorrow, out planes could rebuild the part of the Third part was a manufactor of the Sireth was a ma



Visit bett mit "A" Mountain I, rok Past to Bigoinges Discret into the Santa Cate mas Santa Cher kisser, whose was a research of the Santa Invariant the Lot of Long On its banks butter to be King as to the Court of the Land to the manual States were of Lagadia.

Exhausing against that day, Gen, Cartis E. LeMay's Tacson flyers have been making muck bombing runs on places as far away as Manneapolis. Recently the base has added more refueling planes, KB 29 s and EC-07's.

Today many of the base's operations are geared to the serial-refueling process. Planes on simulated combat missions guilt gasoline in Trans. How string a recommend is beyond Davis-Monthan's range.

Old Town Wall Has Gran bled

Southern Arizona was acquired by the United States in 1853 with the Lin sides in a chase from Mexico. Turson, which as 1-1-21 the Old Pueblo, came wrapped in an adversage, the mud wall surrounding the town. Behind the wall lived mostly Mexicans,

some Indians of Anton no abortones

Tugson's Spanish discourses and Intains will wank along its streets, but a man of the 15 offs would not recognize the process

If you stand at 4 names Street and Stom Avenue, and will see the newer in resident; of the Tueson brew, descendants of the Academy with beards, New Yorks & Cadillius, on leve kuts in hot reals.

the desert; scrapers open dirt roads overnght; but almost nothing remains of the
two wall that protected the Old Pachla
against the Indians. Only a crumbling threeint mount of dirt on the Courthouse lawn
arryives from that barrhade.

There have believed for San val." In Gen-Cueths I. a Tay Samuella Commun. Manager Stay, 19:

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To see the walled city as it looked, I visited Old Turson, an appeopled adobe passac effected as a movie set and now preserved as "an exact replica of Turson to the 1800's."

Visitors thronged the mock juil, and husbands stuck their beads through the mesquite bars for giggling wives to photograph. Old Tucson's town well had no water: the saloon was just as dry. The corral had no horses: the church, no priest. Boothild's graves were strictly phony.

San Xavier, a Living Mission

Mission San Navier del Ikac, Tucson's best preserved landmark, stams a few miles from town on San Navier Indian Reservation, but we Easebio Francisco Kino, Jesuit missionary and explorer, established at two and a half centuries ago as one of a chain of missions from northern Somera, Mexico, to southern Arizona (pages 380, 351).

Father Celestine Chian, D.F.M., the padre in charge, pointed out that Spanish Franciscan missionaries had built the present church between 1783 and 1797. From 1827 when the Franciscans left San Navier, until 1857, when Tucson was in American hands, the mission say neglected. Sections have been repaired, most recently replicas of 10 original columns have been installed on the façade.

Surveying that façade, the eye naturally follows two lines spiraling up toward a plaster est and mouse, the pair staring at each other with enduring suspicion.

'May they long continue to do so," says Father Celestine, "for the Indians say, 'When cat ratches mause, end of world will come

The interior reveals the touch of primitive Indian artisans. Fach pilaster appears to have had its patterns applied by bare thumbs dipped in blue regetable dye. Since the architects liked formal balance, they painted false doors opposite real ones.

Moded on the walls, brown Indian cherups don't above their white counterparts, suggesting that the padres consiled persecuted indians with visions of equality in Heaven. Statues of the apostles stand in niches. One vacancy tacitly calls attention to Judas, the traitor.

Hermit Artist Builds Own Mission.

I found one Tucson resident building his own mission. He was letture de Grazia, an artist who takes pleasure in wearing set fied boots, miner's rough clothes, buttered Na-

vajo hat, and full-blown beard (pone 380).

Mr. Lie Grazia, who would like to be a beautiful confesses be hates civilization. He allows no canning water in his home, but compromises with electricity. It took his wife two years to caux a varioum cleaner out of hun,

Tuesan, which once regar led De Grazia as eccentric, now takes notice because he has become successful. Art buyers beat a path to his door; his ceramics are catching on, and a fabrics minutacturer pays him a cent-a-yard royalty for each sale of skirt material decorated with the artist's dancing Indians.

And now be Grazia has undertaken his "one-man dream," the construction of a "ruined mission in the Santa Catalina Monntains, where he is five miles from telephone, ass, and electricity. He hashs materials into the maintains in a battered old model A list radiator freezes, tires blow out, and people ask, "Why do you do it?"

We have lost the flavor of the West," he replies. "We are becoming an imitation of the East. In my mission I intend to dream of what the country used to be like. The mission will have no functional purpose. It will be a place of beauty where I can go and hide. It will be built to look like a rain because I love rains."

Most Deliveries by Hersbear

Resentary Distribution Taylor, author of Chicken Every Standay, told me how her lather in 1905 had I ulit his home so far out in the desert that he had no neighbors.

"In those days," she said, "the University of Arkona small even farther out in the brosh. City and school were linked by canopy-topped horsecurs ranking past our door.

"I can remember when M other, having forgotten to buy ment, called up the butcher
and asked him to give her seder to the
horsecar driver. The driver appeared but
an hour later, his passengers familing becomes
be had stopped to deliver our lamb chops.
Then, whipping his old crowbaits, a horse and
a male, he drove into the desert.

Foday Turson has not only swa, lowed us but the university too. The last trolley has gone; only a few rails are lett.

The University of Arizona, opened in 1891, has a total entrollment of 10,000, including men and women students from 28 foreign countries. Old Mam, the first building, still stands in the center of the landscaped 85-



Tuesco Revives Pioneer Davi with a Rodeo Parade Down Stone Avenue



5 7 1 4 7 1 1 1

* Cowboy Hats Bloom in Vicent Colors

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Mon, Music Campbie and Gent Castes Make the Desert Night Remainte

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* Indian Turquoise, Heavy and Demarks, Sunds that I ke Old Layption Gold

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nere campus; \$5 bandsome structures have sprung up around it (page 348).

The university's faculty claims a number of distinguished men, but perhaps the most refebrated is Dr. A. E. Donglass, discovered of the tree-ring method of dating Indian ruins.* One day he took me touring close to the snowy s manual of 9.185 foot Lemmon Mountain, Tucsan summer colony and one of his favorite tree-hapting grounds.

When close to the ski lodge, Ltr. Douglass assembled his Swedish boter, which extracts a solid core, and took samples from 16-inch pine and 500-year of I Douglas fir.

An astronomer by education, Dr. Douglass became interested in trees when he found that the varying thicknesses of their namual growth rings not only to lock years of neavy and light uninfall but also significantly resemble certain cycles related to the 11-year cycle through which suggists wax and wane

Starting with rings of modern trees whose dates are known, and mutching them with rings of older trees of unknown date. Dr. Douglass has established climate conditions in the southwestern parabo area back as far as A D. 11 and has dated prehistoric rules by their thubert (page 363).

Now, using his tree rings, he believes it will become possible to forecast certain climater changes. 'But we need more local data," he says. "There are so many complexities, so many withtiens in different parts of the world."

"We Still Fight for Water"

To understand the background of another of the four Ca-cotton—I saw a scientist at the university's College of Agriculture

"Though Arizona is noted for its mines," he told me, "Its burns do even better. The production score for 1952 was: mining, \$225 million; agriculture, \$416 million.

'Hilastrating rotton's westward man'h Arianna grew 948,000 bales in the 1952-53 crop season. The value of that crop outweighed the money return from cattle \$193 million to \$85 million—and this is a celebrated cattle country. The average yield, 682 pounds to the acre, was the highest of any State in the country. Fima Country picked 1.55 bales to the acre, or more than twice the national average (page 348).

"In Arizona the Issue is water," my informant continued, "and we still fight for it. The old sheep and cottlemen did it with guns Now people go to courts and lawmaking bodies. Our case with California over the Colorado River's waters is now pending before the U.S. Supreme Court.

"Cotton as you know, is a thirsty cruptensifing torrents of water. Where is the water coming from? The basic story is this: We have enough water to farm 700,000 acres indefinitely. Today we are trying to till 1,000,000, In certain areas water for these extra acres is being chawn out of the ground more rapidly than it is being replaced." †

Colonel Greene's Cattle France

For the sight of cattle.‡ I toured southeast Arizona with Charles W. Herbert, president of Western Ways, a Tocson studio whose photographs illustrate this article. During our 1.500-mile trip the face of Arizona changed dramatically.

One February day we drove across honedry childs wastelands where scrawny cows barely scrat hed a living and, just over a rise, we entered jush valleys where cattle grew fat.

Entering a waving sea of grass, the Santa Cruz Valley, we found true cow country, with tremendous ranches and registered bents. There Mr. Herbert and I were guests of the Greene Cattle Company's 25,000 acre San Rafael Ranch, founded by the late Col. William Greene, owner of one of the continent's greatest cattle empires.

"I know of no area in the Southwest so well suited to Herefords as this valley," G. Marshall Hattman, the ranch manager, told me "No area south of Kansas has so heavy a sod.

"Our cathe, always in the open, do not suffer in winter, as they do in the North. Cows calve from January to April, there months ahead of northern cattle. Survivals average 90 percent We have no fever ticks, no Bang's disease, no taberculosis. One ranch hand can do the work of many here. The main drawback is the lack of spring moisture, our hig rains coming in July and August."

Touring San Rafael Ranch in a pickup truck, we crove across trailless pastures. Fields of native grama grass stretched as far as the eye could see. New calves had talks

* See "becret of the Southwest Solved by Talkative Tree Renes," by Andrew E. lent Douglass, National Generalized Micarion, December, 1929.

1 See "Water for the World's Growing Needs," by Herbert B. Nathols and F. Bartows Collett, National Generality Macazine, August, 1962

! See "America's 'Ment on the Hoof," by Williams 21. Natholas, NATH NAI, GROSSAPHTS MAGRETUR, January, 1982.

painted pink to tell tiders that they had been counted. On every road we found old croded gullies dammed to catch every drop of thin that fell and spread it across the green pastureland.

The parsuit of fortune anderground has faschated Arizona men since the duys of Coremido, who journeyed across the State in quest of the fabulous Seven Golden Cities of Cibola. Gold and silver poured out of the first bonanzas. Then high-grade copper lated prospectors to tunnel the cliffs and honeycomb the ground.

Today the quest is for low-grade copper, an ore that didn't interest the old-timers. New discoveries, new machinery, and new capital have made profitable the extraction of ore contaming less than one parcent o pper. Arizona, with half a dozen huge open-pit mines, is the leading copper State.

Juil and Hospital Cramble

The graduate mining engineer with buildower and power shovel has largely replaced the bearded prospector with burro and packax, but the laster left his indelable mark on the country. Mountainsides along many a trail remain scarred with abandoned shafts, rusting ore cars and decaying hear, frames, Legends of lost gold mines are a dime a dozen. Any turn in the road may reveal a ghost town.

Detouring down one dirt road, Elerbert and I visited Gleesen, a ghost camp that recently tried to make a comeback. Three automobiles eat on the dusty main street. But Gleeson's edube buildings were crumbling back into the earth from which they came. The jail had tunuled in; the 8-room schoolbouse had been quarried for stone. Grass grew in a roulless, abandoned hospital, and a general store stood empty.

Steve Pryor, Glectson's most arthulate resi-

"Ten years ago my doctor told me to ruit business and lead the quiet life. I touldn't have found a quieter place."

A few miles past Gleeson, once hooming Courtland lay abandoned behind a locked gate. We found the only resident camping in a large and dusty block of stores.

When we asked him how long Courtland but been deserted be glowered and replied.
"It ain t deserted; I'm still here, ain't 1?"

Leaving Courtland, we passed by Fearre, semi-ghost town, whose mines in eight buom-

ing years shipped out silver and gold valued at sax million dollars. At that time, to frustrate outlaws, miners freignted out gold bullion in bars too heavy for tidess to carry away.

They Mined Silver, Fought Apaches

Close to Arrynau, Herbert and I visited one of the last of the Arizona silver mines. The Mary G, a four-man operation, gave us a glimpse into the romance of mining.

E. V. Chester, "oD years old and a miner as long as I can remember." told us the history of the mine, whose tantabzing hole enriched and halifed men before he was born

"Will assay \$200 a ton and some of the highest grade, \$2,000. The Mary G had already grossed \$200,000 to \$300,000 in silver whom flooding at the 100-foot level closed the mine. Now the failing water table | the curse of Arizona farmers | has made operations possible at 200 feet.

"This mine must have been worked as long ago as Spanish times. You can almost date it by the miners' antique 'chicken' lauters.

"Those aid fellows messed up the ground with a maze of tunnels. We sank \$14,000 into the old pit before undermining forced us to abandon it. Now we're digging a new shaft, hoping to tunnel over to the old level.

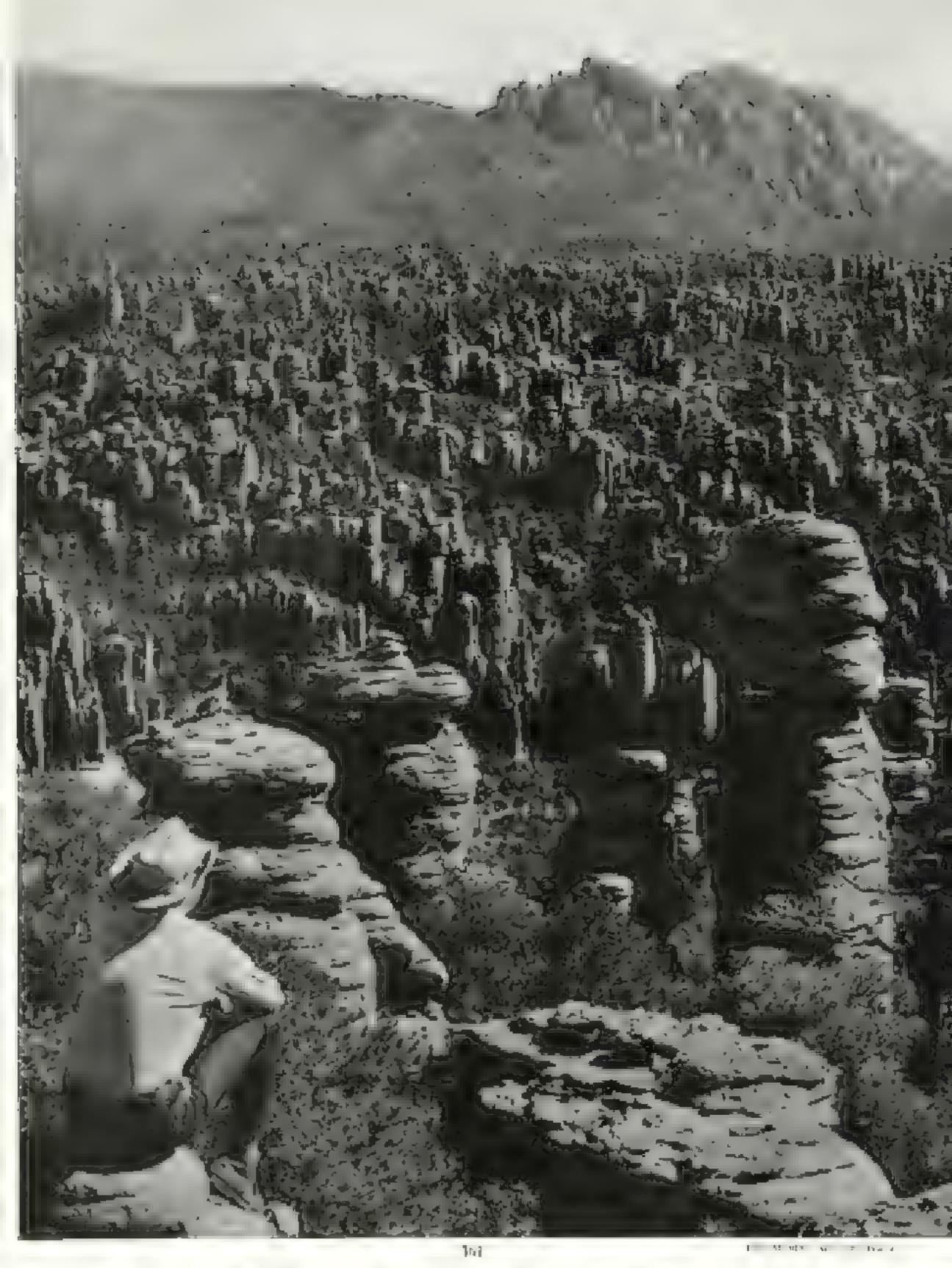
"All we have to lose is our investment. Think of the old-timers who worked the Mary G in Apache times! They used to mine a bit, then fight a bit. I can see them, sticking their heads out of the ground to sight Apaches."

Like so many of his predecessors, Mr. Chester abandoned the Mary G a few months later.

A \$70-mi fion Hole in the Ground

To learn the story of copper, we toured the Morenci open pit and smalter, the Nation's second largest copper operation, surpassed only by the Bingham Canyon mine in Utah. Morenci stands above U. S. Highway 666, near the Coronado trail, where the Spanish explaner, who had eyes only for gold, passed by a fortune in rapper,

Millions of tens of waste rack domped into canyons have us a dramatic introduction to Morenci, a town of 6,500 people. Here the Phelps Undge Corporation, having turned a mountain into a hole in the ground at a cost of \$70 calbion including plant and facilities, produces up to 250,000,000 pounds of copper a year.



Cultise Head, an Laurennias Stone Profile, Some Skymard from a Mountaintop

There is a cost of some of the second of the



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Tombstone Victories Swing a Playtone Banda by His Artificial Neck

Loom to assert to an early of the entry of the extrementation by the anti-contract the entry of the entry of

Meenes Paul Green et van 18. up to an mile-wier pit. Fearn its topmest beach we looked into a hole so deep that men below us were almost lost to sight (page 37%).

Hective showels samping up 5-main-yard vites graw into 20-odd benches, or termosomal I am band the ore, containing a copper sultainty, to the concentrator, which are a mid wastes and tous and a forting the waste and massessing the copper content from the creent in the ore to 25 in the copper trator product

A smokestick taffer than the Washington Manufact tahausts fumes from the smelter, had only a constant for the peered through data tural and their materials are the transfer of the transfer o

salas of hery copper, and slag flows like

le se the disposal of the concentrator's tiquid waste. Morenci's most sentacular operation. This waste is a restore of rock particles and water and the fine growth of poor sary to sequence timerals from burren rock.

Mount is the down was not churned into a the soup are follow a convon with immense that these Liquid tallings flow down hill, build their own dams, and level off behind them, laying out table-smooth, charky rock and a set 1,00%, res. Seen from the emmence the tables dams book like frozen takes or sale

Aday in Tomber of the application of the West's note is bulous mining camps



D. A. F. Dong 188, Who Dates Trees by Growth Rings, Points to the Years 634-661

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A fortune in silver ies the at the great l alw for 'tone, but under cour la ter las to the fine of the Mirers to I there etropic cody to room, but the form or the and The travel to the girls of the profession because.

One Man "Hanged by Mistake"

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A A (I S - S T B) | LOS A | THE BY CO. BY CO

In Billy Clanton, Frank McLowety, and Tom McLowery, all victims of one of the West's most spectacular gun fights. They were killed October 20, 1881, by the brothers Wyatt, Virgil, and Morgan Earp, all peace officers, and a crony, Doc Hallday, in a battle at the OK Correl, the climas of a smoldering fend, Within less than a minute three mentally dead and three benealed.

Guns Still Blaze in UK Corral

Nothing in its turbulent history disturbed Tombstone so much as that battle. Did the Euros fulful their official duties, as a court recided, or did they remove bostne witnesses, as enemies contended? Evewitnesses have presed on, but Tombstone still debates the Euro-Clanton feud.

In October, at its annual Help oraco, Tombestone's Vigilantes cannot the gundant with sixshooters and blank cantidges. Then visitors ewell the town's population from 200 to as many as 20,000, and most of them crowd around the OK Corral, now a vacent lot, to watch a drama that never grows old.

When six-shooters stop blazing, cap platels in to work. Buys start mowing one souther cown; they enthusiastically drop dead all over the pavenient. Scarcely a boy in town does not own a set of gues, and even little girls play cowboy (page 357).

Vigilantes start growing beards (we or three months before the celebration.

"You grow so accustomed to whiskers that you searcely recognize your friends when they finally shave," one Vigdante told me.

Tombstone was named by Ed Scheffeler, who, starting to prospect in an Apache-in-fested country, was warned, "All you will find is your tembstone." Discourted, one it the West's richest strikes, he said. There is no tembstone."

So many miners, gammiers, gam fighters, and hangers on poured in that by 1881, its heyday. Tembrione had 7,000 residents or more. Every other house in the business section was a saloen, dence half, or gambling den. Cambiers from Dodge City, Nansas, arrived in a body

Reckless cowboys matched their speed on be draw with tinborn gamblers. A fabulous list of characters, male and female, settled down to enjoy the mines' dood of riches. The diggings yielded millions of collars worth of silver, but their prosperity was short-lived. Water, found around the 400-foot level. suppose work, and by 1890 the population deepped to 1,875.

Today when Tombstone people talk of reoperang the old shafts they think of making water, which in Arizona is almost as precious as one.

In the parched, fort idding hids behind the town you will find the abandoned stopes and glory holes where men outer dag like males. Be careful as you step over that letsh, or you may find 200 feet down an open shaft

Beside the firehouse at 5th and Toughnut Streets an immense opening marks the Million Dollar Stope, a former silver producer. Here a cave-in once dropped an ice wagon late a tunnel. The driver jumped freet his horse emerged unscathed from a shaft a quarter-mile away.

'No trespassing," says a sign, a warning ignored by three schoolboys a year and a half ago. Playing hooky, they explored the stape, which leads into a labyrinth of dangerous chambers. Before long they were as lost as Tom Sawyer and Becky Thatcher in the limestone cave. Several old time miners, at the risk of their own lives, fished the boys out 12 hours later.

Show Carls' Tranks Cother Dust

C. M. Palmer, Jr., a former Varginian protof of his 1882 adobe house, guided us through Tambstone's historic places.

theater now turned into a museum. Hying latticeses supported its adobe walls. In the dark, unfinished lasement we inspected actors' aressing trains inscribed "Tomb A," "Tomb B," and "Tomb C.". Autique tranks of bycone thorus girls meldered in a corner. On a wall "Lester & Allen' scribbles the words. "Physel here behraury 5, 1883." "Ben Hurwas rotten," said another cloquent penciled action).

The Bird Cage Theater (1881), named for the bird-cage-like boxes in its auditorium, also survives as a museum (page 356). Here the Marshal Earp and Sheriff Schan (actions, hourly the best of friends, used to take seats on opposite sides, scowl at one another and reat, by the variety shows. Show girls served drinks between acts.

Antique arms fill a gun rack where customers were required to park their hardware Wall displays picture famous acts. Says one: "Prof Charles Andress, magician. He showed at the Bird Cage in the early 1880's. His



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* La Contis Romp in Then burg Mountains

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assistant would shoot at him and he would show the bullet in his teeth and then spit it on the floor

"A drunken cowboy pulled his gan and said, 'Catch this one, Professor.' A theater putron struck the cowboy's arm as he shot a hole in the ceiling."

Gone are most of the Crystal Palace Salson's oil paintings and brass fixtures; jake box and leather I names replace them. Silenced are the sinister whispers of gumblers, the shrill laughs of show parts. The drinks are still hard, but now the Palace caters to tourists.

There I met Seb Johnson, a common who came from Texas in 1893. Recently, he related, he installed his first indust plumbing and took his first shower.

"Scalded myself, too," he said. "Forgot to mix cold water with the hot, and I nearly went through the wall."

Windows broken, the Cochise County Courthouse, built in 1882, stands in ghostly discepair. Tombstone suffered a staggering blow when the county government moved to Bishee at the bright of the depression, leaving the Courthouse vacant.

Epiraph Reports the News

The Tombetone Epitaph, whose files record the town's story almost from the beginning. is still published once a week, but now leans more to social events than gun rights (page 362)

"I've seen the mornings when I could have fired a camon down Allen Street and hit no me," an editor told me.

"Biggest Rose Bush in the World," proclaims the sign of the Rose Tree Inn. In its patter grows a blacksta rose planted in the 1880's. The original slip has grown into a cambler covering the courtyard. When in full bloom, laden with thousands of tiny white alossoms, it looks like a snowbank, and the delicate scent can be detected two blocks away. It's a real treat on a moonlight night.

Proprietor of the inn is Mrs. J. H. Maria, who was born in Tombstone in 1881 and has seen all its changes. "Tombstone is a religion to Mrs. Macia," say her friends, "She never gave up when things booked blackest. As much as anyone, she made Tombstone 'too tough to die."

Copper-mining bisbee, Tombat me's neighnor, is lamous for its mineral riches, postal service, and mountainous streets. Bishee is no means on the level. Two miles long and a block or so wide, the city rises along both sides of a deep guich. Houses stand on terraces pitched one above another like swallows' nests on a cliff

The Bisbee postman never rings twice; he never rings at all! To save him weary steps up and down hill, bisbeents darly trudge to the post office for their mail. They take pride in the fact that their community (population 3,800) is one of the largest in the U.S. without house-to-house delivery

Buffalo Graze Old Fort's Lands

Not far away, in the Hunchuca foothills, hes Fort Hunchuca, recently closed, one of several army camps that used to girdle the Apache country. It her in a game preserve loxes and wild javelina hogs (peccaries) mid its garbage pasts; contis hunt quail and eggs (page 365). Mountain lions and an occasional gray wall also wander in.

A herd of State-owned buffulo crops the fort's open range, usefully reducing the fire bazard. As we draw into their midst, more than 400 shaggy animals regarded us with benign, well-fed expressions.

A few motorists and their children, convinced the bisan are tame as dairy cows, get out and try to pet them.

"That's a dangerous and foolish stunt." said Harry W. Anderson, ranger in change of the herd. "You can't trust buffalo even in the corral. You never know when me may decide to charge. One old bull rague, whipped out of the herd, chased are last week. Camp ramor says another buil treed two GI's who tried to stroke his borns.

"Recently the entire herd got speaked and stampeded into the mountains when a P-31 buzzed them; they didn't come back for a week,"

The ranger, who regularly worms and sprays the bisum, says they are hander to hundle than cuttle "until you get used to them." Not long ago when the size of the range was reduced, half the herd was slaughtered. Hunters paid \$25 each for the privilege of killing a hism and taking the head, hide, and fore quarter."

Apache Scouts Heiped Fight Indians

Fort Huachura's (amed Apache Scouts are no neare, the last six having disbanded in 1946. Today their adobe quarters are falling into rain. The thought of these brave men, who assisted the Army in the days when Indians were still a problem, prompted us to



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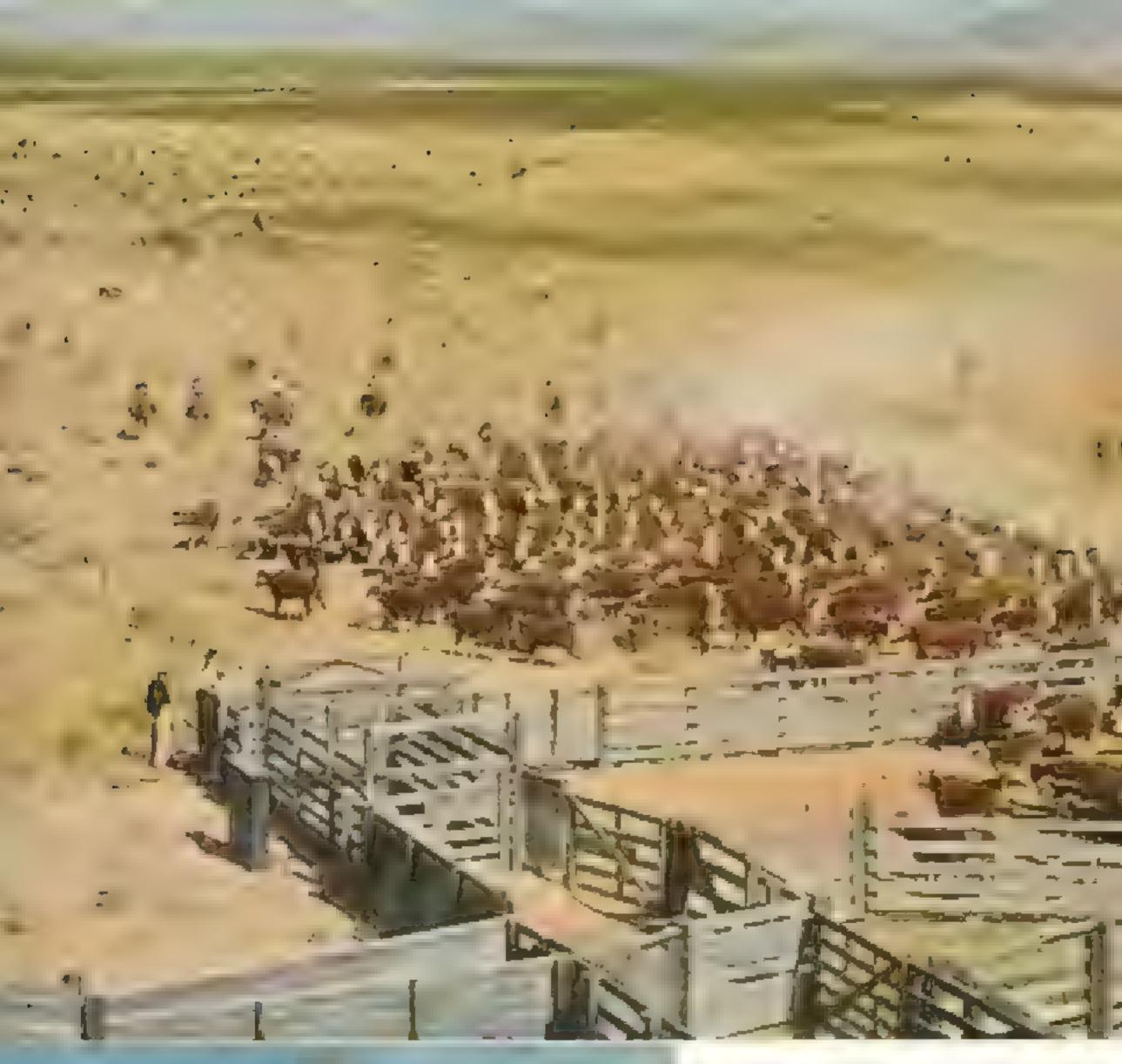
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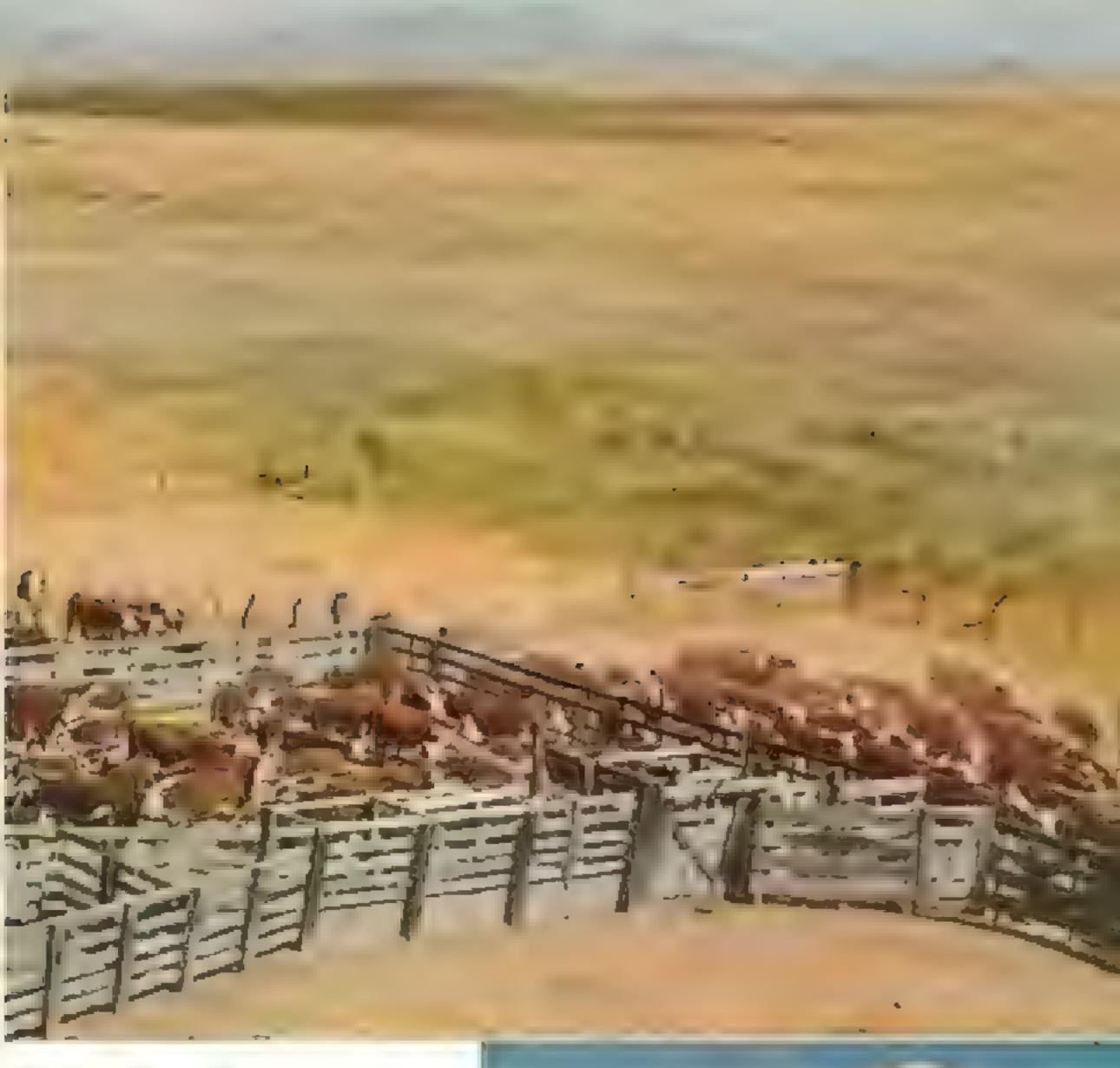




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visit surviving Apaches on the San Cara's Apache Indian Reservation.

Tales about Corbise, the Chiricalua Apaches' wity leader, and his warriors gave us immense respect for that south body of horsenea who suided Mexico at will and for years defied the power of the United States Army. Corbise and his men never raised a horse or a cow; they rustled them, and whatever supplies were needed. Musters of surprise, camouflage, and ambush, they made it e country muste for miners and ranchers.

Cochise, giving up the fight in 1872, virtually dictated the terms of his surrender. Geronimo, the author Apache, carried on guerrilla war until 1886.

Visiting Cochise Stronghold, northeast of Fort Hunchaca, we found a natural fusiness so well based in by canyon walls that a lew centries could have defended it. There Cochise died in 1874. To obliterate every trace of his grave, faithful braves run their horses up and down the canyon. Only one white man, Tom Jeffords, Cochise's brother by blood rite, knew the secret, and he carried it to his death 40 years later.

"Wagon Wheels" Broke Indian Power

Apache Pass, a defile between the Dos Cabezas and Chiricahua Mountains, shower, us the spot where Cuchise suffered his only major defeat. Here the Apache leader in July, 1862, lay in antitish for 11 companies of Union infantry marching toward a spring which he commanded. Hid ien behind trees and rocks, his warriors panced down musket fire and arrows.

The solders almost delitious from best and thirst, saved themselves by fiting bowltzers, which the loctions, meeting for the first time, called "wagen wheels." These small cannon, mounted on wheels and pulled by solders, penetrated defenses that turned ritle talks aside. Leaving 63 dead, the Apaches bed the scene after the worst defeat they ever suffered in a single battle.

This same Apache Cass, a point on the impigrant road to Catllornia, became the grave of so many travelets that the stagecoach line offered triple pay to drivers. We found which ruts of the pioneer stage line, Butterfield southern Overland Mail still scarting the earth. Making no attempt at grading, the ahardonal line signage across the monern road. At those it patallels a wide gash tracing the freshly laid El Paso-Los Angetes natural

gas pipe line. Imagine what old-time Apaches would have done to the pipelayers!*

I net one Apache who piped the line's gas into his home. Clarence Wesley, chairman of the San Carlos Apache Tribal Council, grows alfalfa and barley and runs 70 bead of cattle on the Gilla River bottom. A member of the Miami Rotary Club, he often crives to miles to merticus. I found him supervising two sons who were currying a handsome built califor a 4-II show.

White neighbors treat Mr. Wessey with a good deal of respect. Under his leadership the San Carlos people have made rapid strides. Their pride is a herd of registered Herefords and by artificial insemination. Cattlemen attending the Apaches' sales pay high prices for bulls.

"I have to lead my people; I can't drive them," Wesley told me. "I encourage them to get an education so they can take their place in American society and be a part of the community."

When we asked Wesley if any Cochise descendants survived, he said, "Yes, my mother-in-law, for one; she's his granddaughter." Asked to call ber, he pointed to a pole-anti-brush wicking and, with a twinkle in his eye, replied:

"You know I m not supposed to talk to her."

Wesley, wise in the white man's no res, referred to the Apaches' avoidance relation, whereby husband and mother-in-law keep apart, though bying in the same household. Arizona harmeists see great merit in the institution

Buck Rogers in the Desert

Leaving the Aparles, we visited a pavement-reared, tongue-in-the-cheek exemplar of the Old West. He is curtosust-writer Dick Calkins, originator of Back Ropers. Mr. Calkins and his wife Margaret occupy 20-acre !— k. .: Ranch—"just poon enough to swing a lase — on Sulphur Spring Valley.

the a savage gun fighter with blank in the say, has decorated the living room with rides, pistols, sawed-off shotgants, cavalty sabets, reward notices, cattle skulls, and his own aviator's belengt from World War L.

Seven years ago, he told us, he was in Chicago fighting syndicate dead uses and a back injury.

"When my doctor told me I would have to

*See "The Element Hame," by A best W Alward, National Business Markets Colober, 1981



"They Went That way ! Due Creams Town Marshal of Bon'ta Telis the Author (Left) could be set a grant to be the factor of the second second n le cole en le significación de Arbert, el billo en entre entre el el cole entre entre entre el el entre en e to the contract of the state

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Celebrate Lin Story and Legent, These Accomplished Insects Acc. Musicians, Ventraloguists—and Thermometers

BY CATHERINE BELL PALMER

National Geographic Magazine Staff

Maryland, the Incessant chirp, thirp, chirp, chirp, of a cricket in the house interrupted my reasons. During the summer I had become so accust and to these insects familiar calls outdoors that I parely a doced them. But within the four walls of a house the chirp seemed to double in volume and fall the whole living room.

If it is with a quizz of a reason, or the object of the country of an interest of panel her, but whenever we reached a spot where we thought the cricket was, its cultiversed to come from another part of the reason.

Fiddle by Scraping Wings

This areal illuston was no accident. Most crickets, like creades, become ventriloquets to deceive parsures. Nature's tiddlers, they produce their shrill music by rubbing their wings together. When the common field cricket wants to make his call, he raises his the wings at an angle of about 45° to his locky. A file on one wing rasps against a scraper on the other, creating the sound variously described as treat-treat-treat, creating the sound variously described as treat-treat the sound variously described as treat-treat-treat, creating the sound variously described as treat-treat-treat the sound variously described as treat-treat-treat the sound variously described as treat-treat-treat-treat the sound variously described as treat-treat-treat the sound variously described as treat-treat-treat-treat-treat the sound variously described as treat-treat

Ituring this fiduling process, called stridelation, the insert contribs the valume and literation of the sound by position of the wings in relation to the body. To stake the mated, matiked notes giving the flusion of distance, the wings are lowered close to the back. Some species—certain small bash crickets, for example—do not sing at all

Of the 2 000 known species, the one we were chasing probably was Acheto estimilist the common field tricket. Although Acheto domesticing, the house tricket of the Old World, has been introduced here, it is not nearly so thatetons as the field tricket.

Through the oges the cheerful chirp of the crecket has been weren into I terature and legend. Charles Dirsens tid more than any other writer, perhaps, to popularize the latteresistive with his classic The Cricket on the Hearth. In this charming story there is a contest between a kettle and a cricket to letermine which can sing louder and longer. Cricket wins when the kettle hads over.

The song of the snowy tree cricket, Occarthus niveus, evoked extravagant praise from Nathaniel Hawthorne. "If moralight could be beard," be wrote, "it would sound like that." Henry David Thoreau called the sound "a struberous breathing" and 'an inner dream, '

To many, the stendy chirping of a cricket, remainscent of a singing teacettle, suggests prace and a miort. The breach entomologist, Jean Henri Fabre, productioned, "I know of no insect voice none graniones, more impud in the profunct peace of the picies of August."

But a New York Times nature writer, Hai Borland, apparently had an experience similar to come. In a Trones editorial he described a cricket as 'a black, andminiory noise surtounded by a sentimental aura. On occasion it lives in the open fields, but its invente labitat is behind a conch or under a bookcase in a room where somebody is trying to read. It has six legs, which make it an insect; two antennae, which make it a creature of sensitive feelings; two wings that can be straper, topether, which make it a nuisance."

in old England it was considered good back to have a cricket chirping on the hearth

por centuries cricket lighting has provided a national pastaur in China. Records of celebrated it sect lighters are preserved by the Chinese as records of thoroughbred race horses are kept in other countries. Weighe I in before every fight, crickets are through puto heavyweight, middleweight, and lightweight classes (pages 388, 389).

Some devotees of critical fighting raise the insects and him professional trainers to feed and care for them. Special chars consisting of rice, builted chestnuts, and mosquitoes are given before a fight.

Temperature Affects Song

In both China and Japan crickets are also kept as musical pets. In the days of the Chinese empire even the palace had its royal chorus of crickets, beautiful specimens of cricket cages are now museum pieces (page 393). Common folk had to be content with cages of Lamboo or of coconat shell; the skih had grands with covers mude of curved leavy and jale, Uricket cages in the collection of the Chicago Natural History Museum include one made from a carved walnut shell

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* Sec "Rip Van Winkle of the Underground," by wennith F. Wraver, Nature at Guingsupmer Motherine, July, 1953.





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"Get In There and Fight" A Ballinese Trains Battling Circlety

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Why Does a Ciricket Sing?

Another scientist timed a snowy tree cricket of trips per minute, or 5,400 chirps per limit in a 12 to a light. At the rate of well object a light of the rate of well object a light of the light wineless have crickets are seen and not be of

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Why crickets sing is a question of the first century of the century of the century of the common state? Single of the common state? Single of their critical is a contract of the common state? Single of their critical is a contract of the century of the century of the common characteristic contract of the century of the



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humans sug: they love sound and find it a mane of self-expression. You other theory is that male crickets sing to challenge members of the same sex.

In comment to the sawing of the gravehopper and the lisp of the katyant, a distinctive leature of cricket music is its definite musical pitch. One expealed recorded the seems of three different species of thee crickets and found they were singing, respectively, C (D) to when nights), E, and F, starting two octaves above middle C.

Not normally household residents, crickets do enter houses in Life sum. nice when vegetation becomes scarce. Once inside they will eat clothing, upra lytery, carpets, and even rul her grants. To get rait of them, the United States Department of Agriculture recommends DDT as a 5-percent spray or 10-percent powder; or chlordan-... a 2-percept spray or 5-percent powder applied around baselinards or other places where the rickets may be biding.

In Cleveland, Ohio, angry housewives whose homes were invaded by crickets from a city cumparated themselves with cricket-filled paper bags, muched into the office of the city's service director arm released the insect. Their action forced the director to order a 10-foot

the core two and dispers that process a 1912 the same of the same of a paper with all goods are same.

(Thirps Drown "Yankee-Doodle"

A few summers ago, crickets in the thickets around the Carter Barron Amphitheatre in Rock Creek Park, Washington, D. C., hope so but during a performance of keep Green Frith of Our Fathers. Inc. to be management.

Frith of Our Fathers Inch by management had National Capitas Park Service people spray with inserticide. First the crickets' chirps were just as loud, especially when the orbestra played. You'r Inches.



Cricket Produces Has Cheery Chirp by Rubbing One Wing

Against Agolber

It must don't the male resect raises wrongs above large and moves them back and forth laterally in that the file (4) raise against the screene 181. This action variety is the wrongs and strates the countd (page 365). Only adult males charp. Some scientists say the telebraic sought a mattag call. Others is in the content of the content

When trickets are notices and the limiter blacks the perturbation have a tree has and her emedy to restroy there. A good had promule rentally 22 parel of min I proved of section fluoride or sollians fluorideste, 2 quarts of molasses, and 23/2 gallous of water. Care should be taken to prevent children and pets from eating the bait

Western United States farmers are sometimes beset by the crop-devouring Moritant in k. . I wahrus simplex. A notable invasion by the species, not a true cricket but related to the grasshopper, was the plague of 1848 in the Morroon settlement at Salt Lake Uit? Their crops doomed to destruction, the Lattet-



Georgia's "Bog Factory" Turns Crackers into Cash

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On a Route of Tragedy and Treasure, Old-timers and Ghost Towns Recall the Stangesters of US, "Clean Visit for the Mack Called Gold"

By Amos Burg

With Illustrations from Photographs by the Author

FIGURE 1 on that mome stons day in July, 1807, before paper beys were broking the news through the streets.

"Gold! Gold! Gold!" they cried. "Sextyeight Kloudikers bring back a ton of gold!"

It was the biggest strike in history, the papers said, a stream of gull in Canada's Yukon that flowed rither and ther as news of it flashed found the world. At first the nuggets were said to be as big as peas, then eggs, then potatoes. Gold nuggets of all skewdanced before the eyes of rullions. Men of all callings, of many virtues and varied vices, by I victim to the late. The rush was on.

Main god and port of entry was Skagway, 1.115 sea miles north of Seattle at the top of Alaska's Panhandle. So it was natural that I chose Skagway as my own starting point for a recent trip back over one of the mula routes of the stampe lets (map. p. 400).

Like thousands of early prospectors, I had sailed northwest from Seattle through the first of Passage along the broken Aluskan coastine. From Skagway I planned to pu by train and boat 600 miles farther, to the famed Kinndike gold fields in the Yukon.

As not steamer glided up the Lyan Canal, a natural arm of the sea, to Skagway's port. I tried to imagine what it must have been like 50 years carlier. Not all the thousands who poured in had been lurdy authors seen.

In Tacoma streetear conductors get together and sent nine men to the Kloudke.
Characyants in Chicago dispatched a medium
to dig where the spirits directed. Within two
months after graduation, half of California's
fledgling doctors had left for the fields.

Women Joined the Mud Rush

Women went, too. Greatly estimathered by men, they were more than wilcome in the north, "Any woman, innocent or full of quile," one of the returning miners reported, "can become a bride within 33 minutes after she lands at the creeks

Most miners toted the stammer. 500 pounds of thore, 200 pounds of become, and 100 pounds of become, plus tools and smallers which brought the typical pack to an even time. To transport these mountains of supplies, plus the bords of hopeans and animals, every vessel or the Parific coast was pressed into use—

every liner and whaler, every yacht, cutter, and ketch; even rusty old craft hasled out of their graves. On arrival at Skagway they simply damped cause and sped back for more. Horses, dogs, cows, and pigs were showed into the water and forced to swim.

As I burned down the gaugelank, I felt I was entering the wings of a stage on which one of blatory's greatest drumus had been enacted. One of the original actors washed ashore with me, an old-timer who had been here in '97 and had come back to visit.

"Why, there's a wharf here now!" he exclained.

After a long pause he udded: "It's sare quiet."

Broadway Was knee-deep in Mad

The old-timet walked with me along Skag-way's Broadway, which resembles to places a Hullywood western set. In gold-rush days, my companion told me, when you walked the streets you sank in mud almost to your knees. Every 50 feet or so you'd stainble on a hig lamp, a dead horse that had keeled over from working too hard and cating too little.

There was hardly a spot, he recalled as he looked down the nearly empty street, where you could patch a tent. Some 15,000 people got here by '98. And there was a saloon for every 200

Now a respectable bittle fown of 750, Skagway shows its past only in spots, mostly in ocserted, gingerbreat-stringged buildings that stare back hollowly when you peer in. One of these is a salorn once owned by Jefferson Randolph Smith, even today a legend in Skagway. They call him 'Scapy' Smith, but not because he fived clean; eventually he died in a gun fight with Frank H. Real, a Vigilante.

The Anthor

tions If the adventurer, a rition, because, and carrecterian, was sust by when he isset went to sea. He has some photost his own costs from one and of the Americas to the other. He cruised the bestit of Maxellan in Boriou, a Its fact satisfiest, and voyages, he learned of the Colmolica, State, Velocetere Mesonci. Mesers and Authority and State, Marke, State, State, and taken Rivers in Stages of the Histor, his came the conquered the Grand Canada in the Colmolic seat. Athors, he ancestry, the sense of the Arches, a radio and the Stane, but anything for the South of the last of the State of the South and the State of the St



A Sleagway Brief Comme instance a Theorem of the Good Trail few somes around to har Scott and the trail of dampede of the State State.

the win lid was Mode Wolfelt, who kept and that in Ware Pass lead.

Littered executivant contest this monument is a majoriteted.

There were no Soapy Smiths to haras. It impeders once they crossed from Alaska into Canada. Across the horner Canada's North-West Mounted Police had a firm hand on things. They made every stampeder in aster and saw to it that he was relaying at least 1,100 pounds of grub

Most stampeders came by ocean or nor so Skagway or Dyea, then lake the the Coast Mountains to the beadstaters of the Yaken River. From there they pare by a variety of lakes and theres 550 mues to Dawson City

Skagway and Deer were bitter ravals for the gold trade. The route from Skagway bol over White Pass; from Divea, over Chilacot Pass. It was 18 talles from Skagway to the summit of White Pass, the last two being a steady, band climb; and it was another 17 miles from the summit to Bennett Lake. This made was longer than the Chilacot, but the pass was longer than the Chilacot.

Hoth towns within absociately to be the main entry to gold, both made the most of every opportunity to prove they should be. In April, 1898, when a terrible avalanche of wet snow reared 3.000 feet down Chilkmot. kalling at least \$0 people, a writer for the Dyra Trail slapped the rival blagmans for that mg 'advantage of this said calamity by arlvertising their feverstricken bele of hele

"Skaguans have no shame." he wrote 'They are ghoulish that there had been 5,000 buried if it orly happened on the Chikoot Truit"

The strade to Chilkoot's summit was 25 per ent; and, no the last half mile, 35 pernert. Heaven to look they said, "and hell to neg tiate." In summer Chilkont was a precipiee of stiding tack; in winter, a munster of ice, II was safer to cross it in water though, because a manwas better off falling

Storms blew an frequently Listing water and ice in his face, but more his rank large to seat their was on turning look. This was a tone-way street; up. Man followed man, inch by fach, fingerhold to fingerhold.

"Dwi's Build a Coffin"

Once over the press the two trails met tent I at enough Lake and again at Bennett Lake. Here is where the stampeders stopped walking and started padding. But first they telled trees, sawed built boats 'Balid strong," are read the Mounties who watked man, them, "Hou't start off in a thursting coffig.

When the ice went out of Bennett Lake May 30, 1848, 800 land been craft showed off in the race to Dawson. Hundreds ahead thousands behind, the pressure mounted and



Dowson Firemen, Staging a Dall, Hook onto an Lifestrically Hested Hydrant

Due i meet et sele aster til han hin indited not dosen, her always in a jag a till and a later to the fire have. Till is till, a till and a selection of the fire have the selection to the later till and the fire have the selection to the later till.

mounted. By the end of summer, according to the tilly kept by the Mountes II. Jones but started off, carrying and started

The survival of either Saagway or Dyear depended ultimately on which pass was chasen for a radioad route. When White Pass was classen threat in 1898, Skagway themsed and Dyear wilted. Ly 1900, when the radioad was finished. Dyea has shriveled to a trace of its once colorfel set

High Hopes for a New Boom

Now, after all these years, Dyea may come to life again. I tone to Dyea with Chuck Rocht, who was superm en lent of the rail division of the White Pass and Yukon Route life told me sumething about Dyea's possible future as we taked among the remains of frame buildings and log cabba hag ago engiled by the walderness.

The Abunuum Company of America Laplans for building a \$700,000,000 own and traction present in the Thiva River Valley in the Thiva River Valley in the Third River Valley i

so far a de Valor a ster hat Moor base to sell a a de Valor a ster hat Moor base to yet given up hope. Meantime, a Canadam fine Valor of the lot, has revealed an even up to define yet a matter a sell resources as well as a valor. Statestots have already studied Valor water and work on the first power plant selected to start new or per Tall maint which may take 20 years and two ballies. I chart to a mplete, calls for processing Canadian lead and nickel and for making pig iron, steel and aluminum from one brought on from adparts of the world.

Hack in Stagway to ann. Clouds and I contried the train that was Dury's unloined a riere 110 miles of narrow-gauge track, the White Pass and Yukun was fondly catled "the piecest little railroad in the world," during



* face Photograph Shows Men Sheaming Life, Ant-

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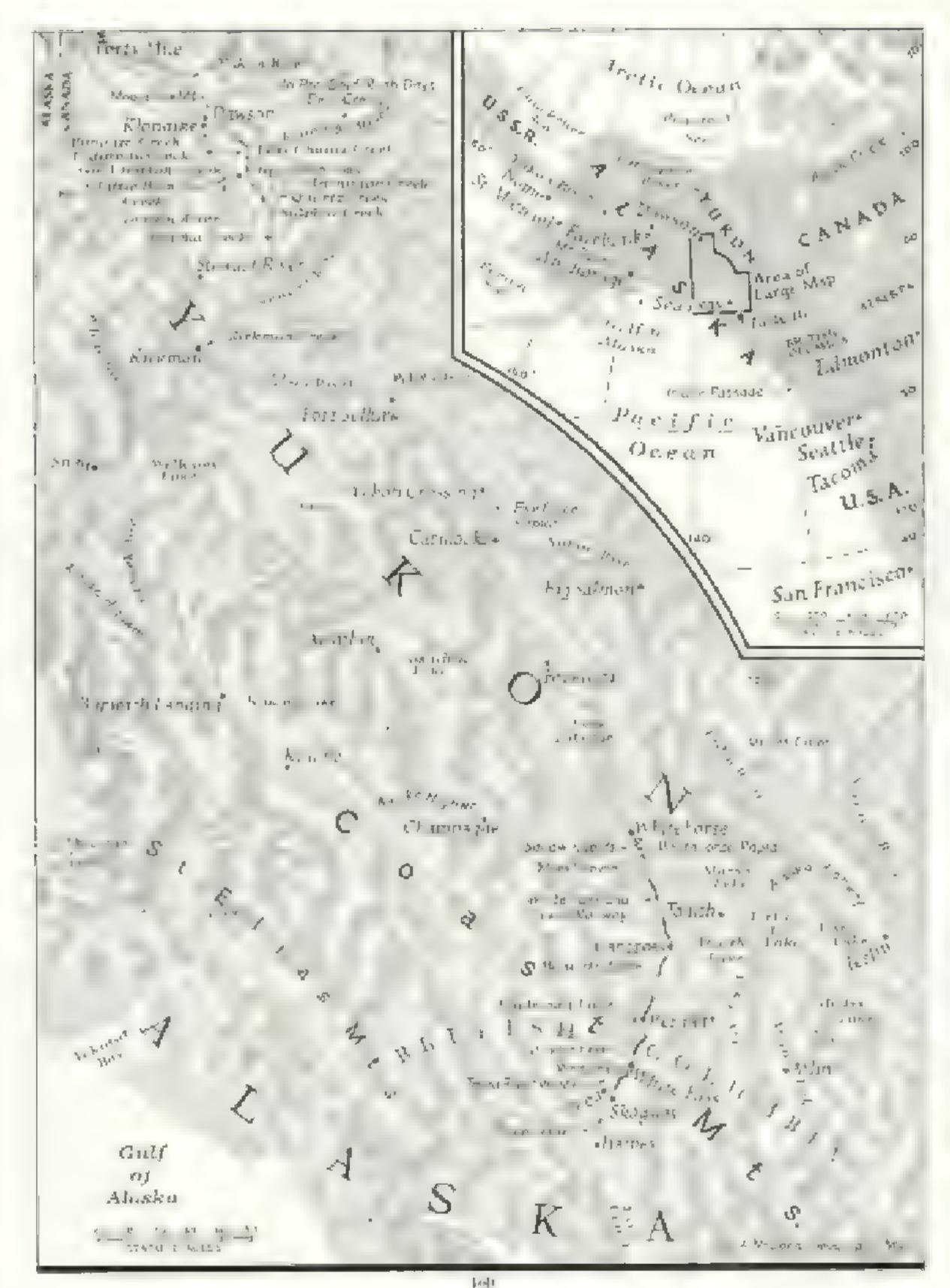
19 said to 12 pm

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The product of the transfer of





Visions of Fasy Riches Brought Themsands to the Forbidding North

Men of every type from every part of the world fought for space on slages. Some came up the Yokon to Dawson from the Bering Sea, many challenged the rapped passes above Iters and Shapwas, weking to floot downwar.

World War II, when it did a beroic jets of houling men and supplies to the Maska High-way.*

As we crawled up the manutain side, up one of the world's steepest railing praces, I saw that the test had been blasted out of sidiffrock. Object told me the work had been clone by one of the fanciest construction gangs in history, distillusioned stampeders, including lawyers, doctors, artists, tombers, farmers, bankers, and bookkeepers.

As the train chagged up the last 20 miles to the summit, I spead my friend, the old prospector, bearinging in the partor car

"This is comfort," he said, the king right ashes grandingly into the niste. "Inok me a month to telesy my grata to the summit in \$7." The trip to the summit and all the way beyond to Whitehorse, Chuck reminded us, would take just any hours by train.

At the top of White Pass we read a sign of the International burder. It explaines that on the Canadom side the waters flow 2,150 males to beering Sea; on the America side they flow 20 miles to the Passac Seam.

Tall Fences and Tall Stories

Then we tilted downward for Bennett Lake. High board fer tes lined one sale of the tracks. I noticed. They obviously were winter snow fences, but I overheard the brokeman soberly telling a fady passenger, "Them's moose fences, malam. Keep moose from getting on the tracks and derailing the train."

beaucit, junction point of the White Pass and Children Trails, was where stampeders built their boxts to go downriver to Dawson. A toaring town of 10,000 at its peak, it's now no more than a lonely, wind-whistling ghost town

Here Chuck and I got an old day, Klondike III, and pushed off from the rotten what on the trail of the gold rashers. The local webbled like a tired accordion, who is It hadn't been used for years, where parts in through its dried-out seams, and we had to hall constantly to keep from sinking.

bifteen miles downsives we crossed the boundary from Causta's British Columbia into its Yukon Territory, a vast region comprising 267,000 square in less of bills and mountains interfaced by large valess. At the parthern end of Betatett Lake we steered the formbring dory under a railway bringe and beached at Carones

Having had enough of Klandike 111, we gladly boarded the next train to Whitehorse. Like most other Yukon towns, Whitehorse was lorn of, and nourished by, gold. But this town has continued to theire, while the others languished. Atways the distributing center for the Territory, as head of tiver navi-

action and terminal of the milmad, Whiteborse is now also the leading metropolis (popmation 4,00c). The Alaska Highway and a large \$13,000,000 airport strategically located on polar are routes helped it grow and become an important military base.

Moreon as it is, the town still shows many traces of the past. As I lagged my Laggage up Front Street to the Regime Flotel, a water track, swinging its empty backets, came changing past one. After all these years, many pipeless log cabins and bouses still buy water at five cents a backet.

No Time for Sharlages

Most business in Whitehorse is crowded into the three or four months of warm weather, and things were bouning when I was there. I dropped into a shoe repair shop, where I interrupted a basy cabbler working on a mountain of old shoes. I bought a leather shoe lace to use for a watch chain. "Please put a hole in it," I asked.

The shoemaker exploded. "Here I have a thousand dollars in shoes to repair," he said, "and you ask me to cut heles in a 25-cent shoelage."

I saw the old cabin that belonged to Sam McGee, immortalized by the Yokan's burd. Robert W. Service, in his pallad, "The Crematam of Sam McGee." Sam, facing death as he tradged the trad, had but one fewerthe pun of an icy grave. Before he breathed his last, he wrenched a promise from his partner to tremate his remains. The partner complied by studing the frozen corpse into the blazing firebox of a derefit bout he found on the edge of Lake Laberge.

ister to investigate: 'I guess be a conked, and it's time I looked."

There sat Sam wearing "a smile you could see a mile." Said he, "Since I left Plans-tree, down in Tennessee, it's the first time I've been warm."

Although Service wrote racily about "the cassedest land that I know" and about its people—".a a stark, dead world, clean man for the muck called gold"—he also wrote pensively of the catastry's beauty. On his long, softary randles around Wh teborse he drank in the grunderr that most of the others specify. One early spring, he tells in his auto-documphy, the stood on the brights of M.les Canvon, breathing in the beauty. Suddenly this line papped into his head. "I have passed

^{*}See "Alaskan Hickmay on Factorering Epic," by Final Common No. 2011 Common March of February, \$145

thee Phosphoran of the Moree (1945), and therper of Mexica (1946), by Somet W. Service. Published by Italia, Man, & Company, Inc., New York.

on naked grandeur where there's nothing else

In gaze on."

To me, Miles Canyon and the Whitehorse Mapids just beyon! are the most thrilling part of the Yukon. The empon is only 150 feet wide. The whole river, fut with the water of the upper lakes, turns on edge to squeeze through it. In these turbulent waters many stampeders were clashed to deat t in their claimsy craft.

Shorting the Whitehorte Rapids

Watching that wild water, I promptly determined to shoot noth canyon and rapids in a cause. The plan was announced over the Maistehorse ratio and negated as a revival

of the thrilling days of 98.

Once our "public" had assembled at Miles Canyon and Whitehorse Rapids. But y Good-lad, who is a Yukon Rever pilot. But Mac-Brade, and I pushed off into the head of Miles Canyon. Shring off the tops of the housest breakers, I steered the langing traft through it, what seemed lake only a couple of minutes,

Below M les Canyon, before we got to the clangerous Whiteaorse Rapios, we shot the collicking whiteaars of Squaw Rupids with ease. As we traced the hig rapids there after below, our attention was sidetracked from the leaping waves to the 500 spectators on the bank. For a second, seeing many bands in the air, I thought something was wrong. Then I saw that the bands held

We are probably the only unpagents ever to navigate the Whitehorse whitecaps parkding each with just one hand. But then, we had an amience, and what rould we do but wave? In an lost out we were through the breakers and around the hend, at I waving as we swept dampstream to Whitehore

There we relimptished center stare to an all river queen. We stood on the wharf as she approached. Actually, we neared her before we saw her. Pulling lottelly, stempling the stiff current, the yellow funneled stern-wheeler finally neaved into view. Soon we made out her name: Come. She had just come up from Dawson, 414 miles in 150 hours. Stently we watched her steam to her berth and their t leave till her lost pull subsided like a heavy sigh (page 437).

Whitehorse is impressed by the majestic sinkeres and big express buses that stop there, but its heart helongs to the old time river boats. Cana is one of the few survivors of scores of steamers that one pleaf the river. Up to 1914 there were about 250 Now there are only two in service; hence I considered it a rare privilege to be making the

hist lap of the gold trail on Casca.

On steambort day is seemed as if half the

town had come to the whirf to see Carca off Capt. Midcolm Campbell, veteran of 45 years on the Yukon, stood high in the wheelbasse, waiting with the poise that attends mustery. This was like moment (page 414).

He yanked a cost. Bells jangled in the engine room. Immediately the 20-ton paddic whee, began to revolve, and the exhaust exhaled powerfully in rhythm with the piston strokes. As if to dramatize our departure, we first moved t priver. Finally we turned and pulled downstream past the town

took over. The passing wall of space forests rut a jugged subocette against the pale sky. Decasionally a short tact of Corra's whistic broke the aftence, signaling her passe pers to the rule to view a couple of nurse swimming in the river, a black bear clowning along the bank, or a bald caste sitting sedately in a tree, there I thought I saw cardious swimming in the river about, but it turned out to be several Indians and their dogs floating on a rati-

As we cruised the Aboute stretch of lake I theree, I was reminded of Chief Boss, the Indian who lived there during gul brush days the story goes that when a stampeder fell through the ice, Chief Boss trued to charge han 50 cents for taking a bath in his lake.

Cable Tues the Host Upstream

The section formerly known as Thirty-Mile River, between Lake L berge and the Teslin, is the swiftest, most dangerous part of the Yakon system. We went downstream in less than three leaves, but it takes none of tento logic the current opstream. At these it seems that Cason won't make it with her part the wheels. And indeed she didn't in one section. A calde had to be run ashore and the ship literally dragged by her winch over a swift, shallow place.

In addition to shallow spots, unsigntion was emplicated by many bends in the river and by the hunden of a steel barye (lasca pushed about of her, making the r condined lengt a 305 feet. As we neared one bond, Captain Campbell noticed are interest and pointed toward pilot Growlad. From the pilotinuse 35 feet above the river, Goodlad read his waters as easily as a scholar reads a book Yet, about the lung of the slowly swinging barge seemed almost ready to climb the bank, while astern the thrashing which looked as it might wan be moving down trees.

'It's a tight waterer," said the cradam, seeing the stranged lack on my face. "If the harge was any longer, we dhave to jackknize it around these bends."

I calld see why stramboat pilots consider the Yakon too risky for mass like these they had on the Massissopi. There is room in the



A Dawson Miner Files His Poke to Swap Glittering Gold Dast for wash-

If the fit is the corporate that the fit has the constant and the little that the constant is the fit has the constant and the little that the constant is the constant and the constant and the constant is the constant and the const

grant danceds or to leach the property of the second of the and state and the property of the property of or as per had the chart of all a

A billed Stepper to be because of eldeand a m bor functed in pulls. By 19the er to them I got so I could tell how the part of the ship. A few puls and ture . . . i ientet wie webe eine ting u ber-" I is the sowed up, it meant shallow water in a translation who I was laboring. Past, reads or 10 a maute, indicated deep now and a standing that believe

In a - _ 1 so accustoment to working by hetening to the exhaust pults, the captain told me that when they change to be is equipment a is weart condensers, which don't pull, it times a month or two for them to adjust

We lever Carro stopped to wood at he. proper that or accord Fisher or

the formulation of the partie of the gold almost anywhere in the Certitory, and if it are many other assets Yukuwets so. al of about. I heard a lot good while of their from one of the passengers, a Dawsen woman who was caming back from her -- 1 vice and the rest easy. After a month of to or any scoops or the simulatening, showglad to a cong home. And now she look. to ward to eating a Dawson tematic

> "Why, their tomattes the purps in the le-1 said, 'In Dawso: " . ' on . to respect the sweet had full

Godens Flourish in Short Season

Neighborhouse has the en and hother so in Dawson, she told me - Li geteral to 1 st epopular troof occurs to just the first autamer friet in ann Aire t

But the sun she has be to a regnd the clock n Jupe and bur . .. in July. The tagging of the state of the continues higher, melting some of the frost and providing natural origination. This continuation of · m and infigrition makes almost every kind se lower and vegetable falltish

Unlike flowers and vegetables, trees do not thrive in the Yukon. Except in major valleys and depressions, timber does not grow to mercantable size, Stands of native waire sprace and birch take core of local furl needs, but wince 1930 sawn brooker for Dawson and Whitehorse has had to be brought in from British Columbia.

In places along the river we noticed much smoke from forest fires, many caused by careless trappers. One pilot told no that the fires affected unvigation. By lestroying vegetation they lessen the soil's water-be ding properties and cut down the volume of flow in the Yukon, which is less than that of some other rivers its length. Now, in mid-August, the water was so low it task the utmost in skill to uswipate it.

Five Fingers Squeeze Casco

When word filtered down from the pilothouse that we were approaching have binger Rapids, a knot of passengers gathered around Captain Campbell. He was something of a here to us by this time, and soon to become

an even greater one

We could see ahead for r huge, tree-fringed rocks almost blocking the river. They form five channels, only one of them pavleable. So narrow is the passage between the rock wals that if the wind is blooking it's considered too dategerous to make the ottempt. "If a new pliot hits here," the captain said, "he generally loses his nerve. If he misses the channel the last time, he doesn't get mother chance,"

With that, the skipper climbed confidently to the plathouse and took the wheel. Quickly be swang Cana into position for a smight tan, then januard the bell for full speed absail. As we skipped by the rock walls, it seemed I could teach out and touch them (page 413).

It was shortly before misnight of our secand cay when we tied up at bort Selkirk, an
all trading center. Here Hudson's hav Company hadt a fort in 1848, not the Indians
burned it down. Long noted for its numerous
blalemates, it couldn't muster enough dogs of
any kind now to pay the traditional howling
to bute to Casca's whistle. All of Selkirk's
population today—a trupper and five in lians
est out on a high bank and wat, had us gravely
as we took on wood,

Presently the trapper, trailed by his lag black dog, came down to greet us. He invited me to his cabin for coffee, but is way down in price, he told me, and making a leving by trapping is tough. As he talked, the trapper waved his dog to the table. The dog lapped to two cups of sugared coffee and then went into his hig act, eating become held in the trapper's mouth.

The intimacy between trapper and dog didn't surprise me. I had read more than the account of a stampeder sleeping with his dog to keep from freezing to death. Often when a dog worked on an key trail, he'd get painful balls of frost neder his mile and between his pads. To thaw the puw, the dog's master would put it in his mouth, then carefully dry it off with his shirt. Many a Klendike diary has told how a limping dog would saidenly stop, turn to his master and hold up a paw.

kirkman, with a total population of two, was the prettiest place on the river. It was annot overgrown with flowers—pink, blue, magenta, spiked here and there with yellow, bearly 500 varieties of sold flowers, forus, and shruks have been identified in the Yukun, itseluding several varieties of the orchid family. I was told that within a few minutes' walk of Dawson I tould find the bog orchid, fly-spotted orchid, ladv's-tresses, and calypso.

before turning in that a light, I overheard Captain Campbell say to a Dawson boy returning from school in Vancouver, "It's a wee hit of a way to Dawson pow, laddie, and

there's nothing to stop us."

Lying on my bank. I leafed through page after page of Klondike lore I had stored in my mind. I could almost feel the frenzy the stampeders felt as they drew closer and closer to their goal. And I visualized the river hanks piled high with freight and boats, so we and talts familied four or five deep for miles up and down from Daws in

the look at Dawson barbor text morning, however, brought me up sharp to reality. Extept for a trader's launch fast in from the Porcupine River, Casca was all alone at the water from. The town looked as if at had carled up at the foot of Moosehide Moant, in and gone to sleep, impervious even to the roar of the kloudike River, which comes snarling out of the hills to join the hukon on the south side of town (page 408).

Edds Once Cost 53 Each in Dawson

I hurried to the Royal Alexandra Hotel and had breakfast in the adjoining case. As I are a couple of eggs, I recalled that in '98 eggs cost \$3 each. The "Royal Alex" still had the same old embossed sheet metal cei ing. (tide time black-leather chairs lined the lobby, and on the walls hung lite-size paintings of nucles in 7-foot git frames.

I protessed myself I would come back for a longer look and dashed to catch a ride to King Solumon Done. There, 20 miles out of the city, 4,250 feet up, I beheld the great panerama. Here at last were the famed creeks of the Klumake Valley—Gald Bottom, Donainion, Eureka, Last Chance, Eldorado, Sulphut, Little Blanche, and Bongres—cours-

ang over an area of solution and square make the solution and solution and section and section and section solutions.

Cold Westeleter . the Yelling a male of Ily Stale Branch 11, , (- p - 1, | q - 1 and by 1887 there wen-. File of the last of the last 51 July 52 at f patil August to, Issue that George Worth mater Camabi legitory th life familia e in their 1 4 54 1/17 11 11 12 12 1 (', r | 11-11 | 1 | 12 | 12 | 12 | TITLE TELL TELL fiel, the Sibil (read, to best here

for the trees of But a Company of all the the graph politice and her the space of faces (7 | | 2 3 | 11 4 4 | 2 4 4 STRESS I R HILL OF While the water a कारत केला १ व्यक्ति है है । a son or some 1. 25 | K . 1 | He 1 20 a hinta had let as despring res, with a gri . 3 | c . 1 | > (to." FF 4 5 111 1115 of temperature to the latest temperature tou

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How the Great Stampede Started

ter day to cost on a distribute of a cost one took two set to toly us; others a rule to the Carmack wrote is name with Discovery' and "One Belaw" on the first two



December (it like on the Fora Dora's Old Malagary Bur

I a feet a second of the feet and the fee

stakes; Jam's name and "One Above" on the to taske: Charae's rame and "Two book to take: Charae's rame and "Two book to take: Charlie rashed off to approve the law with the Mounted IS were to add to the same of Lorey Mile.

Minute two many the 25-mile opens was staked from a culto of

One versice of the stary is that Henderson

had directed Carmark to day on Rabbit Creek and to let him know if he found anything. Henderson, working less than a day's journey evay from the stoke, shelp't hear of it, however, before all the good claims were staked. The Dominion Government hailed him as the "true discoverer" of the Klondike because he had been first to mine on one of its tributaries, and gave him a \$200-a-month pension.

But Herdersoo's pain was not assumed. Some years later he renounced the pension and took up prospecting elsewhere. He died

still searching -t.l' tiller

Caranack, an American citizen like the vast majority of Kland ke stampeders, drew no otheral recognition from either the Camadian Government or his own, but he did draw attention. He saw to that. When he took Tagish Charlie and Kate to Seattle for a visit, they blocked traffic by throwing gold coms from their hetel windows. The story goes that in a San Francisco hotel Kate blazed a traff with her knife on the stair banisters so she could find her way to her bount.

Skookum Jan and Tagish Charbe were given benovery Considing citizenship and the white num's privilege of entering a salaon, a kindness which literally killed poor Charlie. Having celebrated too much once too often, he toppled to his death off a White Pass and

Yukon railway bridge.

But while he insted, Charlie experienced no greater joy than ordering up a reand of arinks for the house. Thouson afforded him almost countless outlets for joy. Every third door opened on a salson.

Gold Panned from a Cafe's Ashes

When a man bought drinks he'd throw his pake on the bar. Then the bartender weighed out the gold due him on the bar scales and tossed back the remainder. A careful tender would keep a cloth around the scales in case any dust spaled, and later he'd gather up the rloth and shake the dust into his next poke. Some salounkeepers, it's said, gut molasses on the end of their whiskers to gather dust.

After fire consumed the Arcade Unic, next to the Royal Alexandra Hotel, Hurry Gleaver, who owns both, panned the ruins and mare bimself several bundred dollars. His hotel once housed the Flora Dona Dance Hall and the Homanion Gambling House, is t now the dance hall is the sitchen of the new Arcade Unic. Over the carved archway to the kitchen you can still make out the gold lettering. "Flora Dora" (page 405).

Here is where Nellie the Fig bit off her partner's ear for a keepsake, where Diamond Footh Gertie danced, and Cad Wilson strutted about, listing from the weight of a \$50,000 belt of auggets she were twined around her

waist. Men were crazy to dance the "cow talling" with the girls and wallingly paid \$1 a monute for a twal on the floor.

I got a queer feeling as I clopped along the warped wooden sinewark down Dawson's Front Street past Dame Hall Row. Building after building now was boarded top, its false front weathered grav, its roof sinken like a cudaver's cheek. For a while I thought I was lusing my sense of balance, for many of the I tilldings appeared to be leaning at a takish angle. I was glad to learn that the fat It was with them and not with me.

Dawson's buildings go askew because the soil underneath, starting usually about 1s inches below the startage, stays permanently frozen, and the active layer above heaves and contracts as it thaws on I locates. The cost of digging foundations in the permatrast is nearly probabilities, so people put up frame buildings the best they can. They know that altimately the heating unit will melt the permatrast below it, causing the portion of the structure directly above to cave in.

Welting Holes to Bedrock

Permatrost was the scourge of mining too. Ground nearly always had to be thowed, usually with wood fires, before it could be dug. A man set his fire at night and in the mothing descended his shall to dig out the ground thawed while he was sleeping. As tedious as this process was, it could have been worse. For had the ground not been permanently frozen, the workings would have been flowled with water. Some placer deposits by on or near the surface, but the richest were in the bottom of the creek valleys.

Harcts, known as poor new's mines because they can be worked without expensive machinery, are found throughout the Kandike. So far, only one lode mine has been worked in the kloudke. In lode deposits gold is littely trapped in quartz or other matrix, from which it has to be shuftered

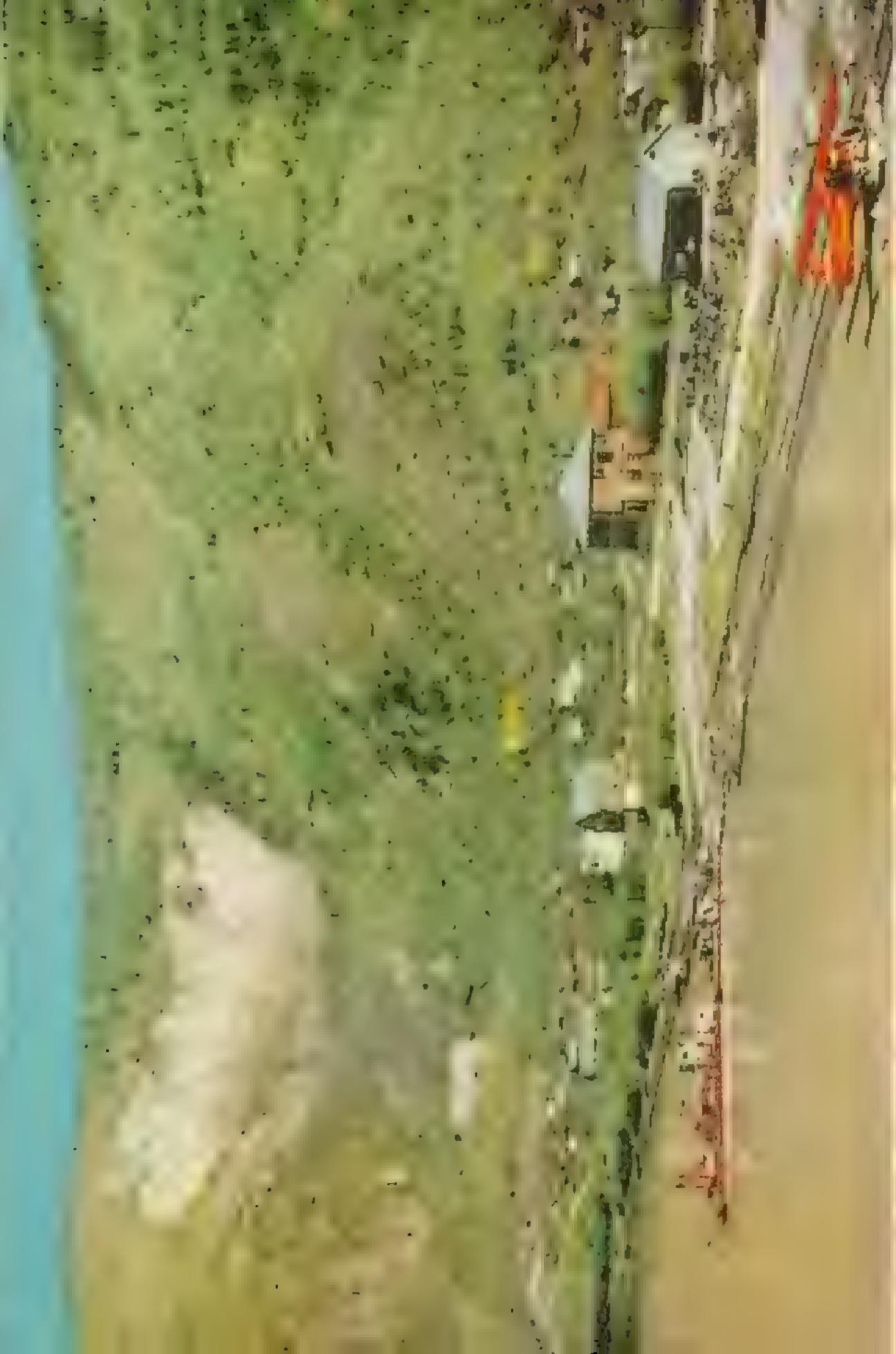
Yukon Stern-wheeler, Puffing Smake, > Shoves a Barge Downstreum

Scotes of element the the through the 1970 rate hadon watercourse during gold-such that past before the tits of the century. Prospectors, zamblers and adventurers embanked by the thousands, a me at the river's uponth on the Bering Sea, others on the bea fauters bear W mehorse. All were headed for the bosonsike, and all had gold dust in their even.

Torky much of the gold and most of the people are gone from the Klondske. Stampe is days are but a memory, thely a few steen-wheelers remain to challing the wilderness route from Whitehers to Dawson, in Canada's Yakon Territory (page 410)

If we summer visitors watch high the deck a-Large, twee a test of the upper Yukon, pairs due a stream to leaven. Members of the deck crew risk the native leaded with oil drams and enlarge capples. Contant therepare we are to be intome to do be





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The Whitehorn, Reving Between Tries Cales to Mind a Mississippi River Pucket

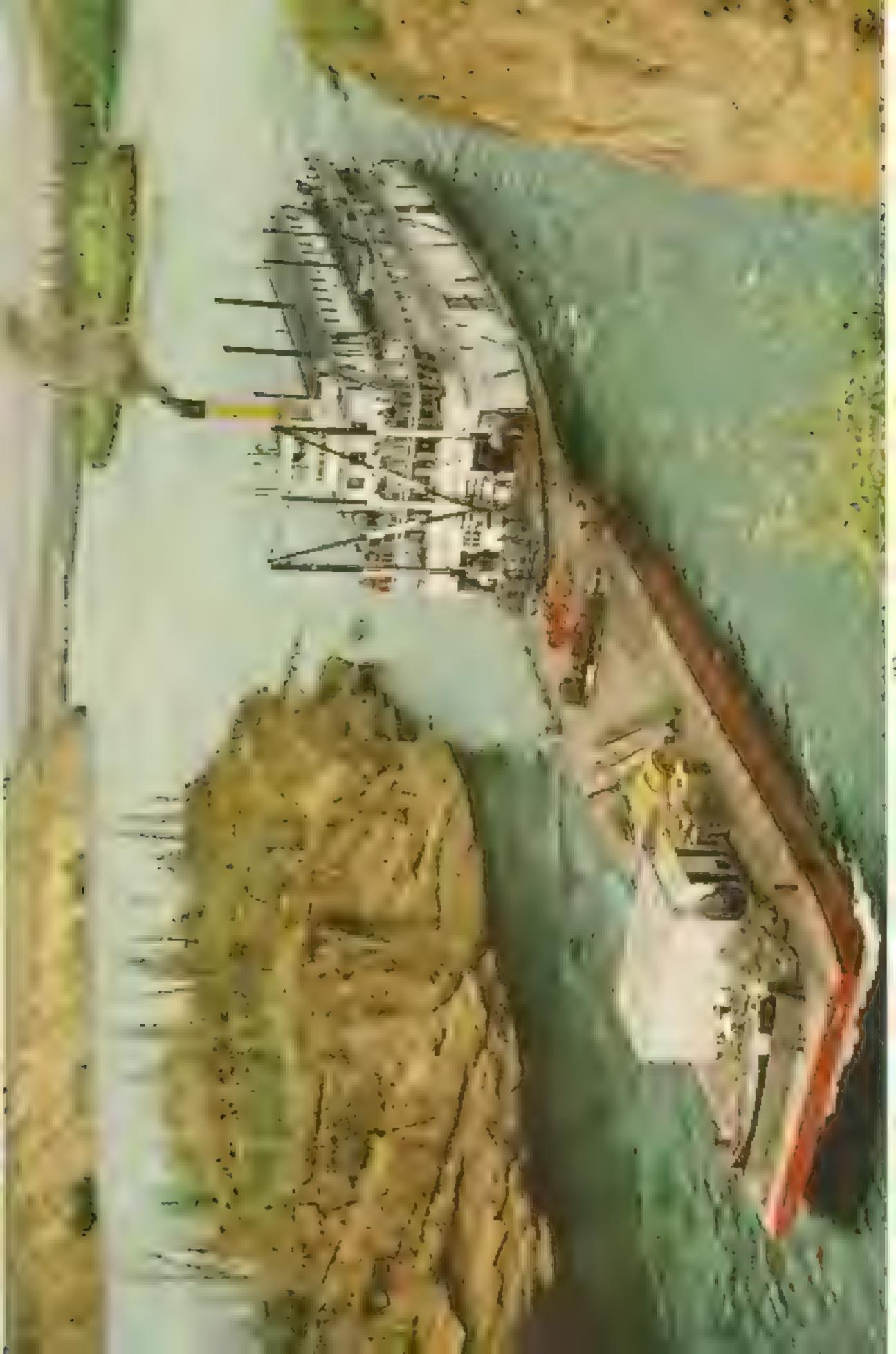
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River Steamers Lie in the Whitehorse Slipwas Like Shaved Volumes of Adventure

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Y A Yearn Servan uch Plays Solitaire on he Purch of The Daws of Cabon

The same the same that the same terms and the same terms are the same terms and the same terms and the same terms are the same terms and the same terms and the same terms are the same



loose. Placer gold, on the other hand, lies free in sand, gravel, or loose rock. Nature has done to st of the reduction work; man has only to dig and wash.

In winter a prospector usually mounded up his diggings and waited for the spring thaw. During the warm months he washed as be lag. The simplest, and slowest, way to wash was up a pun or rocker, but wherever it was

practical a miner used a slace box.

There were all kinds of shine boxes, but the principle was the samet shoveling gravel into a stream of water diverted through a series of inclined whoden boxes. Gold, 19 times beavier than water and several times begins than rock, same to the bottom of the boxes, where it was trapped by cross bors called riffes. By this method two partners could average \$100 a day on a rich stream.

Hush Folis on the Rush

In October, daylight slipped away and the thermometer's mercury crawled lower and lower (lowest officially recorded temperature at Daws m: 73° F., and ny Snag 120 miles m, it is -81°, the record for all Canada). It en gloom sat on the Klond ke like notantalis of frozen gravel

Out on the creeks the search went on, only now it was crazier, lonelier, stider. Through the soundless cold you could hear a num on ghe three miles away. Now and then a wolf howled far off in the hills or a tree split the full length of its frozen trunk, shricking as

if in pain.

Many cabins held more gold than grub, and not many held much gold. There were numerous salaides along the creeks. Some men swore they, too, would end it all, if only they could afford a repe.

These who didn't take their lives took themselves to Dawson for relief. There they flacked to one of the salam shows to see the

most talked-of act in the klon like.

A man mour ted a scatiold, let his arms be tied and a noose put around his neck. Then the platform was showed from under him and he dropped into space, bouncing from the jark of the rope. As his face turned purpos, the curtain was drawn.

Since a different man was selected for the act every night, the audience power know for

sure whether the victim survived.

Cambbing was as desperate as the dramatics. Pots commonly rais to \$5,000, and whole fortunes were lost in an evening. Except for the gentle thrums and clicks at the tables, the rest of a saloon might be noiseless. Miners drank a silence and listened long-faced to their favorite song, "Home, Sweet Home," From where they shoul it was 1,700 long unles to Seattle.

It seemed nothing happened to break the pall. But at last, on October 14, 1998, it came—the Lig fire. Flames leaped from one tinder-dry shack to the best. When water froze in the fire best, men fined up from water hades to flames, passing backets hand to hand, and saloonkeepers passed out backets of whisky to keep them going. Seem notedy on ld tell frewater from water, and both were thrown on the flames in merry abandon. It was Dawson's first real referration

In two weeks the town was rebuilt. Six months later it burned again. This time, as before, the fire hase burst before a trickle could reach the flances. Today, fire chief Elmer Guardroe told me, Duwson has 26 fire hydrants "all electrically heated so they won't freeze even at 74 below" (page 397).

Rebuilding Dawson after the fires gave a lot of unhappy, unoccupied people something to do. When 25,000 newcomers arrived in the summer of 98, they found they had been heaten to every creek. About the only way left to get a claim by that time was to buy one, and that took anywhere from \$5,000 for an unproved mine to \$50,000 for one with pay on it. The largest single sale of the summer, accreting to the Klandake Nageral, was \$350,000, for No. 8 Eld starm.

Wortbless claims were often passed on to innocents or drunks. Charlie Anderson, the Swede, was fooled that way—or so the men who witnessed the swindle thought. Charlie, who had been working a creek far away, had a theard the news of the Bonauza and Erlorado strakes until he returned to buy supplies, and then it was too late. The more the boys told him of the kidings made off those creeks, the worse Charlie felt and the harder he drank. Findly, in other dispetche threw his puny poke of \$800 on the table

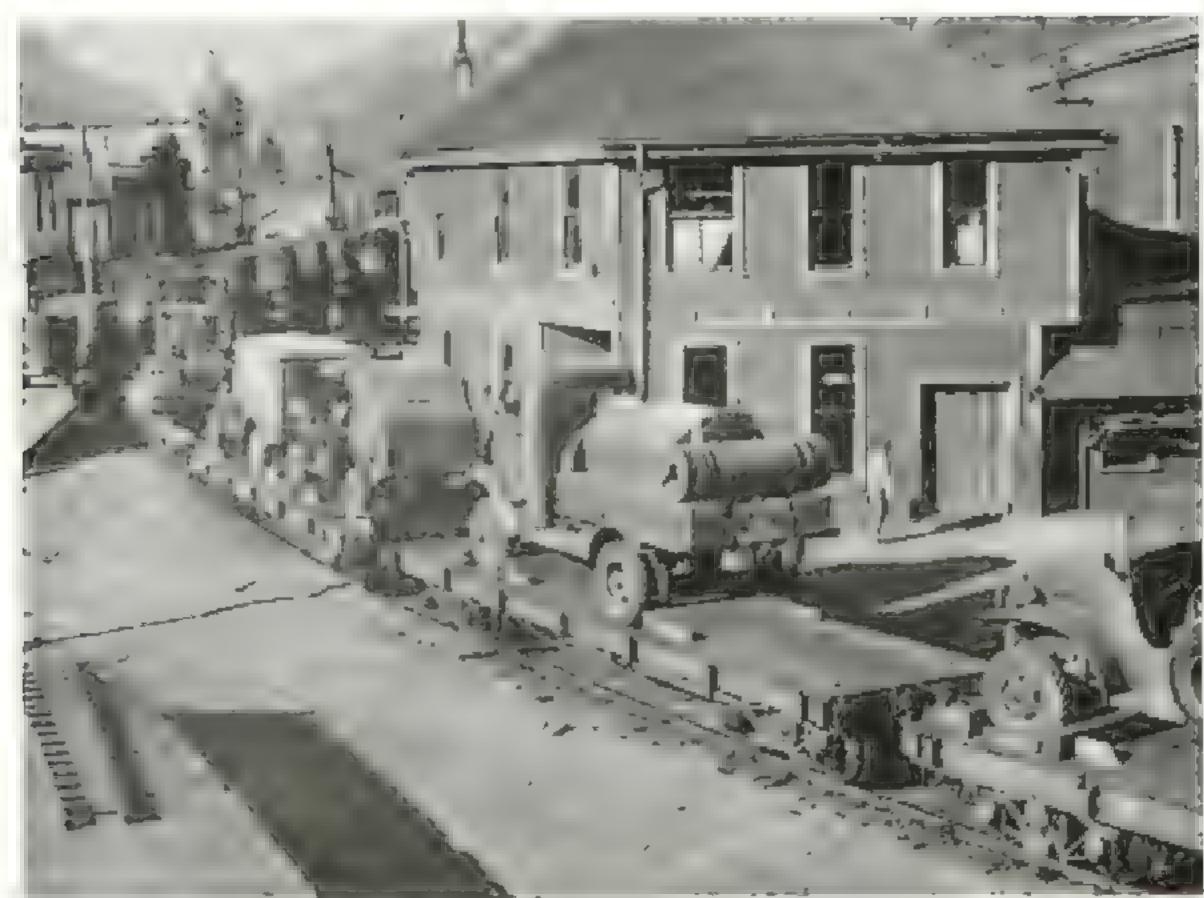
In the morning when the Swede awake, he found himself the owner of No. 23 Eldorado which everybody knew was a dry claim. Charbe begged for the return of his poke.

but a deal was a real.

All Charlie could do now was to beg a bank at the cabin nearest his new claim and set to work melting a hole 30 feet deep. That very first hale paid Charlie \$130,000. He took his tooney to Scattle, got married, came back, and dug out another \$100,000. That was in the fall of 1893.

Men Move that, Machines Move In-

Hy 1899 the big rush was over. Machinery was moving in, and gravel was soon being thawed by steam points. Having skimmed the cream off the Klondike, the prospectors scattered into the wilds or stempeded to Alaska. There, it was reported, gold had been found on a beach. In the first week



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Rand Equipment, Brought by S. . . Leaves Shagway for the Alaska Hidrores

The state of the s

exter word of the Alaskan strike had seen confronted at all our left for the new first leaving signs on their cabin doors: "Come to Leaving

I the gold both in deflated, so also did Hawson I ull-blown, it was a city of 8,000, bit of an area containing at least 18,500 more. Today her population has Iwan lied to fewer than 800. I saw a few prespectors till adams by hund, hat since 1905 read. If the min age has been done by quart electrical L. And since 1932 nearly sof the gold eserves have been owned and worked or one and sourcem, the Yukon Consolidated both Corporation, Ltd.

Floating in time trace or four stories high the directors crawl across the land like monsteads are is crawl across the land like monsteads are is crawl across the land leaving arry piles of tailings (waster in their wase. The dredge moreses from 2 to 25% million cable in gravel in the Aprilsto-Navember are littles to kloudke did now yith a contract of the little are the littles and the littles are l

tarned up their nuces at any dirt paying less than 10¢ a pan (two shovelfas)

Though the population of the entire buton term my today is only \$,100, and though the ferritery nevertheless maintains a stear sortification to Canada's total gold produced, now surpassed ady by South Airicatiold is mined in all hat two of Canada's Previoces and, an point of value, is its most important mineral product

Print little Hawson, still the centur of Canada's placer mining, looks as much to the unknown tuture as to her brilliant past the known resources alone, it is estimated there are excitable deposits in the knowlike to keep dredues going another 50 years. And the Yukon holds indoid, antapped quantities it other mineral and water resources.

Some people say I) whom is dead others say she's last by a coma. I think she is very much alive—surely a said. Downer doesn't bytend to let you forget about the gold spoon or her mouth. Nor does she mean to let it go

American Family in Afghanistan

Where Camel Court as Share Ancient Coates with M norbuses, . Yousee Teacher, Wife, and Children Happily Set Up Housekeeping

BY RESECCA SHANNON CRESSON

With Illustrations from Photographs by Osborne C. Cresson

Mexico we traveled as a family half around the globe to five in Alghanistan and were surprised to find much in that strange setting to remind as of our former home in the American Southwest (map, page 421).

But there, in that fir-off kingdom to Asia, mountains from higher and deserts stretch wider, farmlands are painstakingly terraced. Shaqows cast by mad-walled villages are all that pack them out from their brown setting; and the worst for auto nechanic is "basta-carl."

When we reached Kahul, the capital and largest city, my husband at tited traching mathematics at Habible College, where some lessons are taught in English. So Osborne did not have to know Person, though he learned Person numbers in a barry to check on whispered answers.

to Kabiti, Fersian is the predominant tongue: the ancient Pashto, or Fushto, is used as a second national language, in the south the situation is reversed.

Habibia College is run by the Afghan Government and employs a number of American trachers in its linglish and seamed capartments. Box's alone compasse the student body, which has 2,600 in grades from first through twedth. For this selected enrollment totton is free (page 422),

Other schools in Kabul use Fremh, English, and Austrian tembers. Kabul also has several schools for girls, though few girls seek education beyond the south grade, becoming at that age marriage-minded.

While Oshome Inight, our 9 year-old daughter, Wetherill, and 8-year-old son, Os, went house hunting with me. During our wanderings Kabul emerged as a unified metropolas, where at first it had seemed a Lowidering succession of high, plastered walls limit a confusion of a streets (pages 424, 425).

Carrels Plod Among Autos

Semetimes we note in a two-wheeled, horse-drawn "taxi" called a gades, which has two seats placed back to back over the wheels. The driver (aces forward, while the passenger faces to the tear, in launia at danger of suding off the seat that slopes downward at an alatte of unge (page 420).

We grew acquistomed to comel carnyans pledding calmly down the street in magnin ent distain of motorcars, godess, donkeys, and flower-painted tracks. Men ride in godeen or buses on donkeys or bicycles, or they walk Even Americans learn to walk in Kabul, where there are few cars,

Soon after we arrived traffic flow was switched from the left side of the roat to the right. For a few days a walk or tide along the streets was hair raising.

Lionkey trains were especially stubborn about keeping to the left; trying to face down huses and tracks, they would stop at the very humpers with at the trils that us and curstiviting in Irretation. The traces were constructed in the felt, so now, when they down up to the right hand curb, the thereof their passengers, perforce, left the middle of the street!

Rear of the Bus for Men Unly

When our whole family took a top vide. Oshorne had to enter by the rear door with the other men, while Wetherill, Os, and I got on at the front with the shrunded Afghan ladies.

The challers worn by the Alghan woman is a billowing, tentlike parment in a great variety of colors. A small embrachered cup has yards and yards of material shirred onto it; back and sides reach the ground, but the front section is only about kneedleagth and is handsomely en broidered. The long edges usually are beint together in the wearer's hand, covering the short piece, which is seen only when a woman reaches out to accept change or to shake hands. She peers at the world through a lattice-embraidered rectangle across the eyes

Men's wear is as varied as women's is sterrotyped. Some men wear turbans wound ground stiff embroidered saulicaps. Full cotton pantaloons and long brightly striped quilted coats complete the costume. Others wear suit coats over their pantaloons, and pative sharts with long tails flapping freely. If a man is not prosperous enough to buy a Western coat, he may settle for just a vest.

In Katad most students and government officials wear brindess karakul hats, and many wear Western dress, omitting neckties (page 420). When boys stopped at our lause to



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In Crowded Buses Like This, an A woman Family Toured Mountainess Afghanistan

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serves, tembrelias with the soup at a spring diffine party.

We grew completely philosophical about each. We a nearl the furniture ort of he way and, after the rain, simply waited for the floor to be

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Autos Are Few in Afghanistan's Capital; Two-whoolyd Contax Time Their Place

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Hot Water Hosterd for Shapped Day

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Land collect Maintain Site in One of the World's Hosters flat Sports

more water into the supply tank and re-establish the project course of the hot water,

The wel, went dry regularly every other day for six weeks, and mud collected in the tank and round tous. I mally we had to blevale-pump the pipes to blow them open before we could take a bath. After a year with the gormous, erratic plumbing, we lest the house at glorined for a larger one, with a bleger garden, tin-pipe plantling and less rent.

A few houses in Kabul are now keing built with indoor kitchens. One house we know of has a kitchen adjacent to the dining room; but, to rouch the during table, fold must be carried out the kitchen door, along a path built the length of the house, into the main had, and thence into the during room—all because there is no connecting door between dining room and kitchen. Step saying is not yet a contest of must Afshan builders.

In our new home the constance was just a few feet from the dining mann. It bonsted an elegant wood- and coal-barning from stove plus the usual changed stove, which is I tile tione than a pand shelf with four holes in it

How Nabi, the cook, produced a blazing charcoal fire in a few mint tes remains a mystery to me. Yet, with the desterity of a juggler, he broiled, stewed, and baked over those four holes. Natai liked to use the pressure cooker, and I worried a little about his gay uncontern lest the cooker blow up with too hot a fire. I soon crassed to marvel at the incongruity of a pressure pan on an agreed charcoal stove.

No such thing as a sink graces the usual Afghan kitchen. Its substatute is a square stone on the floor with a rassed edge oround a strong property of the large and a water picture of the large, a galvanized tin tank with fancet. I hough we provided a large kitchen table, dishpans and drain trays stall sat on the floor during dishwashing

The cook crowthed on his haunches or sat on a low beach to prepare the vegetables. He would drop potate parings on the floor when my back was turned;

"I buish. I sweep up," he reasoured me Nahi was a blessing who came to us as nar learer before we had even found a house.



has if a little College Lacas Harring Lacilities. So Midwinter Accurious Are tile Rule

Names the Am. Habita h. Edan, who ried in P. I., Hawita in the second of secretaring the second of secretaring the second of the

He could neither read nor write is in thick as not be a properly at least the course of the factor of the factor was a properly throught I was letter that the table of the factor is thought I was letter that the table of the factor is thought I was letter that the factor is the factor of the fac

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Bearer Carries Meter Care

the lay Note and tented from a fine and the series of the

unpainted wonden traines decorated with bands of color applied with crayons. Woven tush twine forms the "springs." With naturable ticks for mattresses, they make surprise to formable leds.

We declided to use narrow charpiere for sofus too. Osburne measured the pecessary dimensions, knowled a string at the proper lengthst and sent Nabl off with it to the bazaar. When the "sum I" frame was delivered, I sat down on at. My toes barely touched the floor? Osborne measured the legs (if the bed) and saled Nabi.

This is two inches higher than I specified," he storped.

Nabi laughed and shrugged his shoulders. "I drope. Subde," he said. "I tell the man, but he say the string is wrong. He sit down like this and measure."

And Nald demonstrated how the man had author on air and pressured from the seat must have bud long legs!

Swed'sh Modern, Kabul Style

Much of the furnitute in Kabul hears a strong resemblance to the dark mission designs of some 40 or 50 years see. One ray, however, we shotted a like ad-fasished annuluit in a cabine maker's shop. It was barely wide enough for me to squeeze into, and the back leared forward instead of backward.

We have friends who are breader than we are, so we explained our requirements in breadth and proper tilt. The whole family contributed suggestions in Fersian. At last, four rather Swedish modern type granchales arrived, with side charts and tables to match. We kept them shiny with shoe pulesh, furniture polish being unavailable.

When we began our home school, attended by White it. Os, toll to it all little block, I found I would not be able to teach and do the croking as well. Nabi stepped into the breach, declaring be would like to learn how to cook, so we had to acquire a new houseboy.

Rather, we took on a procession of houseloves in swift succession.

First came Mohammed Noor, a youngster who had never worked for foreigners. He had off-the-face cars that held up an expressive tarban. Deep in thought, he taked the turban over his eyes so be could scratch his shaved head. On the verge of striking a bargain with as, he pushed the turban to the back of his head so he could scratch his forehead.

At dut Jamil was a laughing, bustling individual whom we enjoyed, but he went off on a protracted spree. Sayad Sarwar were n ascara and lasted only four days. Atdal Alistayed even less time. "You don't want tea, do you!" he chudenged our guests. Monammed Salaam was a nice gangling boy who tesked in pantomine if, in the Alghan way, he should bring water putcher and bowls for hand washing at meatime. I told him we what wash in the bathroom. So after Osborne he tradged, to watch openmouthed while my has and washed his bands.

Saluare was unwilling to stay alone in the house when we went to Iran with Nabi, so Kurban Ali came to take his place. Having preciously wasked for lareigners, Kurban Ali realized we were strange people who nie with looks instead of impers, who coinged at thesomethe food, and considered irrigation water in which our neighbor might have washed his feet, main for drinking

When our Landord's wife thed, we claust felt a part of the faneral. Their small house was only a few feet from our back windows painted over so our servants and Osborne could not look out at the women in the land-lord's compound.

We truly sorrowed with the bereaved husband, for he seemed devoted to his wife, an avaluation several years, from the moment of death, members of the family lamented sail prayers, and sobbed all night. Even the title children joined in. A crescendo of waiting the next morning warned us that the body was being taken away.

Decause the hundred was a wealthy man and of position in the army, a hearse, instead of the usual charpises, bute the body to the graveyard next day. Only men went to the service at the mosque and to the interment. The women stayed at the house; not until the agn returned did the wailing rease.

Mourning Lasts for Forty Days

For three days the relatives gathered, talking, eating, and sheping, with occasional outbursts of wading. The family (easted each thirsday, the night becore the Moslem day of wotship. Forty days after the death there was a final pathering of the clan, with great leasting—and the mourning period was over.

Afghans do not reverence the dead in the same way that Westerberts do. Their graves are supple boles into which the cloth-wrapped body is lowered, then covered by stones and earth which the grave, but a formal tomb-stone or other identification, parely.

If a natural numbe for a new road runs through a graveyard, the graves are leveled and no one bothers to move the hones to other locations. Ordinarily Moslem grave-yards are inviolate.

A happy event for me was a visit with a newborn baby. The young parents had an apartment in the large bouse of the wife a family.

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Harn Half., W. Id Apart, These Friends Laugh at Barriers of Laurenage and Phase Warnerd Cresson (kitt) pappur adopted to a conserver as andro despitable spekit west and not leather basis. Such a dots Alphan sculent Lauren.

I found the pretty young mother bedecked with ruby carrings, beads, and rings. An embroidered white-si k counterpass covered bethed. The baby's swinging metal cradle was draped with a silk not and filled with claborately embroliered pillows. Afghan women du exquisite needlework,

Newborn Buby Wears Massara

The paby, as yet thursmed, was a they swadding-wrapped transle with long black bar. Mastari lines drawn an unit ner concaine to long points at the country. When her mother unwrapped her, it was some moments before the infinit realized she could move the they arms that had been bound so lightly to her sides.

Makies stay in sweeding clothes for given until their it they are girls, the industrial like their older sisters in short-waisted dresses with white puntaloons (page 418)

Boys wear ministure pajamalike saits. Practically every rhild, and many men and women, wear small silver loves with verses of the koran inside: children often have a whole rew of them strong across their chests

Some days after a haby's birth the father gives a party. He entertains the men, while the women gather around the mother and the mother and the mother chooses are. If father approximation of a live is the child's came. Registration of a live tarth is seldom perform t

How old is your little brother?" we ask the older of two children.

"Nine years, marke seven" comes the nearly involtable answer, "I don't know, My nother doesn't terrember."

Every man hopes for some but daughters are petted and spoiled just a much as buys. Alghan men are devoted to their children; it is consisted to meet them we are the street.

thild in man, as to see a shapkeeper ten l'ast the child as well as his store.

Traveling along Alghanistan, we have seen how many different tribes make up this small nation. Their dress, their faces, and their dwellings only vary.

A holiday before the annual Jeshoo gave us a chance to go west to Barnian, where two colossed ancient statues of Buddha are carved in the chifs. We acroved at right as one always seems to in Afghanistan (page 429).

Startling was the authors in the morning to the post of the first the body with tows stretched a patchwork of varying shades of preen and yellow. Below as a farmer squatted at the edge of his wheat field, cutting the ripe grain with a sickle. Farther off I could see a straw stack; beside it cattle transped around and around, threshing the wheat,

Women were tright spots of red in hr light shawls and ankle-length bloomers. They do not wear the thuderi at Bannan; passing a man, women metely turn their backs of pull-a corner of their shawl across their faces. Here in these rural ristricts are seen bands of coins across foreheads, long bill-shaped eartings, numerous sover necklades, and coins sever to dress body es

A hundsome mul be used gaide opened the gate so we might climb up and stand on the head of the tailer Buddha. From that perious perch we could again the painted decorations, a the lance wall of the statue's niche.

I confess I did not fully appreciate the murals nor the view across the valley to the snow-covered Koh-i-Baba. My stomach kept knotting uncomfortably until we got the children back to safer regions. Despite that distracting concern, however, I still find those celicate drawings and that precedul scene thereby eached in my menory.

Fears Flow from Lifelets Dragon

Wetherill and Os enjoyed clambering along the spines of the "Drugon," a high hill that today closs book like a two-headed dragon. A mineral spring drips tears from one eye.

Best of all we liked the sapphire-like lake located about 50 miles from Bamian. So clear is the water that you can see the fish you don't catch; a stone seems to sink in slow motion, so fit can you follow its descent.

Nomeds were beginning their southward trek toward winter pastures. Their black felt tents were folded and packed on cames. Thet down atop the loads were assorted lambs, chickens, and babies. The animals were led by women, padding along the roads in bare feet, dust coating their dings black clothes. They seldom bothered to pull their head

shawls across their faces. Nomels are an independent people, proud and respected. A city man speaks with pride of the granulather who was a note.

Hars in Kaliul, streets were bright with humors for Jeshan, the independence telebration. Though hadependence Day is May 27, Afgunts celebrate it for a week in August because the flowers and fronts are at their best then.

Shopkeepers had tacked costly rugs at their doorways not draped lengths of silk and cotton cloth around them. Pictures of the king were much in evidence, and lights were strong across the main street. The avenue peut the Jestan field was gay with streamers of the black, ted, and green national volors, a multitude of lights made it as festive as a carnival. During the celebration our house lights dimmed because the public infamination put a strain on the supply of electricity.

Soccer Tours Play in Bore Fees

Hockey and societ games went on day after day. Osborne, a former soccer right wing, shieldered when the players came on the field in lare feet

Dancing groups performed the national dance, the attantional. Men moved in a large cardle, executing the same figure over an over—plap, bend, tweet, took the head, which are mad. The clarke makes something primitive inside you go thump-than p.

Rams buttled, men wrestled, and the American county added a comic total when nine untrained men played a game of basel all with Hability to liege boys. The Americans had more sense of human than ability and lost glociously, to the debaht of their youthin opponents and the crowd's anusement.

A parade was the main event. In a shine Role-Royce the Kang rode past the pressing crowd and the paydons sheltering members of the foreign colony. As he revewed the army, airplanes swooped overhead. Little cadets tried to passe-step in boots so hig they could scarcely lift them.

Hab ha Unbege has school sessions all summet and, in compensation, a long whater haliday. People thought we were foolish, even crazy, when we dericed to take the children on a long true by Aighan Mail bus,

Several writers have told of sataris by Afghan Mail. Our story is quite daterent and more enthusiastic. Kough going it certainly was at times, but after a few days our bodies became adjusted as our minds became engressed in the passing scene. All of us found the journey most enjoyable.

* See 'Back to Afghanistan," by Maymani Owen Whitems, National Glockardic Magazine, Ortober, 1946. Safely embarked, we soon became acquinted with the other passengers. The two wives of Mahammed Khan, a lattow traveler, offered as home-baked sweet bread and advice. Wheever knew baglish or breach polished it up, the better to instruct as. Those who spoke no foreign language patiently taught us new words in Pers in

New exquantances leaned on our knees in order to hear above the creak and rattle of the bus as we same rounds and plantation songs. They applauded signments and sang

Alaban wings for us,

Young On had been printed to notept a few of the unwashed raising so often offered to him and to store them quietly in his coat pocket. One day he haned over and whispered, "What can I do now? All my pockets are full." He solved the purblem later by hapensing the raising to new fellow travelers when we changed buses.

If we still were rolling along when night came, the passengers shuffled themselves and their bundles to make comfortable nacks where Wetler II and Os might sleep. They do not object If a best contentionally stretched repose their laps or pose I their ribs.

Police: Rice with Mest and Caramel

Wetheri | lost interest in tea, and I was glut to pass up hard soiled eaps for a white. Our daily diet could usually be supplemented with wished russins, dates, pomegranates, and withints, so that even six weeks wasn't unsearably hing to be subjected to the monotonests fore of the modelie trabouses—non-

ed pilan or emben

Nam is a dat, platter-shaped whole-wheat bread tasty, whole-some, and eaten in large quantities by Afghans and Cressons alike. Clima is a dish of rice and fat from the fattribed steep, with boiled most buried in it, I dan has rammel added to the rice during the cacking and has meat buried in it also. Some kinds have a stew along with the rice conclines taising, slivered currents, and alreadous are mixed with the rice. It is delicious,

At theret we saw the crumbling minarets of an ancient masque and the exquisately tiled towers of a newer one. Such thing indicates Herat's long subject on to Lersian inducates.

literat's people still wear hage karakul hats, ance boots of soft black leather, and short quilted coats being lunged of loose. Houses are separate beeblye-shaped adobe structures, seldom are they of steed within walls, the common practice in the north and east. Some are scattered singly across the places.

The southern city of Kame all in centers the test or called by many the home of the treak Afghans. 'Kan I than, at a lower elevation, a much warmer than Kahul, We looked over

low walls in front of white stucca hoases to admire wade porches, beautiful gardens, pomegranate trees, and grapewines. The "purash wall," to hide women from view, is at the rear of the boase. I ards are much larger than in Kalad, giving Kandahar a more open and modern book than the capital city. Actually, it is much less cosmopolitan,

Handiwork with the Help of Feet

Walking through the hazaar with a train of currous followers, we saw a man working a wood little. He pulled a now to make the wheel turn, guided the wood with his workflattened big toe and carved shapes with a tool held in his left hand. A helper, also working with hands and have feet, sweared crayon on in gay stripes and parking the tree color with wood shavings. Os was celighted with the lattle spice hoves they made; he uses one for his tacks and screws.

We men with black shows and embroidered white face shields tied around their heads and lunging to facir waists turned to store at us

The city of Ghazai, in spite of its age and streets too s cep and narrow for a car, has more of Kabul's world bees than Kaudahar tpage 432). Foreigners co not attract quite as large and inquisitive a following. Bazaar mer aren't too surprised, even when a funding of four purchases three bases hubble-addition pipes

One pipe per Afghan household is usually considered sufficient, for a puff or two is all anyone takes at one time; a shade filling of tobacco will be adequate for family and guests. Our intention to make the pipes into amps might have astonished the merchants but Ghazai men just smile indulgently.

in retempert, as in actuality, our Afghun

Mail journey was a great success

Furing the religious boliday of Ramazan we journeyed to the far northeastern province of Budakhanan. When people heard of our plans, they opened their mouths—and quietly closed them again, recalling that we had enjoyed our winter trip.

I ransportation was our problem, because of an acute gas shortage. As it turned out, we rode as far as Khanabad in an army lorry

going morth for rice.

Across the plains we bounced to Charikar, up countless curves to Shibar Pass, them ghe a narrow canyon, and flown the far side of the great Handy Kash mountains. Reyard the green valley surrounding Doah Mekh-i-Zarin we crossed a region of rice fields, then canvo titles not ass brown prairies, pasture for tattle and sheep. At last, by a bare brown ringe, we came to Khanalad.

The tall, busky young governor (hukim) of Knamakad is a coasin of Ilzmari, a student



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Concealed Under a blacket, a Charcoal Borner Warms Boy Burber and Charmer

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A Peast of Novel Delleugies

The table was set with handsome the me porcelain flower vases. Several foods were served that were new to us and proved descious; paper-thin, plate-shaped waters of field acough with bits of spinach and choves to led into it, a thick whole-wheat pastry, and alack "king" toutoerdes so pany we couldn't eat them with our fargers. The hacin's nother, wife, and sister joined us, though of Ramaxan, Moslems fast from just before dawn until after sundown.

The good bearted governor helped arrange our progress to wart. Faiza and; he phoned by the condition of the fair of the condition of the fair of the f

At Kun its tiers a scot or gral and a small pottery plant, the latter powered by a country of the second source that are that the part of years. After a long to Index not that thered back to Khanabad and on to Tabapan in a rickety form with a basefoot driver. A lost Obbothe inquired about a track to

take us on to Faizabad

"We are waiting for the lattles that went up to come back," was the reply

"When did they go?" Uslame , ked.

"One went a meath ago."

"And the other?" Oshurne per and it "Oh, that one left three month " " So we did not want for the farries

Be fat as his mine. This gentleman is a so a relative of our travel companion Exempt. The took as up the hill in see the mine

Workers can to greet him. Half kneeling each one took the hoss's hand in both of he kissing it. They seemed genumely glod to see



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American Youngsters Quickly Learned the Tricks of Bugamme ic Kahid Buzzurs

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How to said mine we rode horseback to Machhail. Beyond, six mountain passes intervened before we saw the little town of Faix-rod, dir signs and meaning to a bend of the Kok to Kenet.

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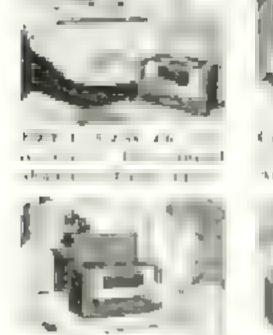
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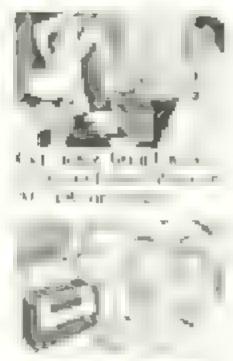


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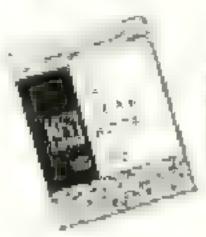
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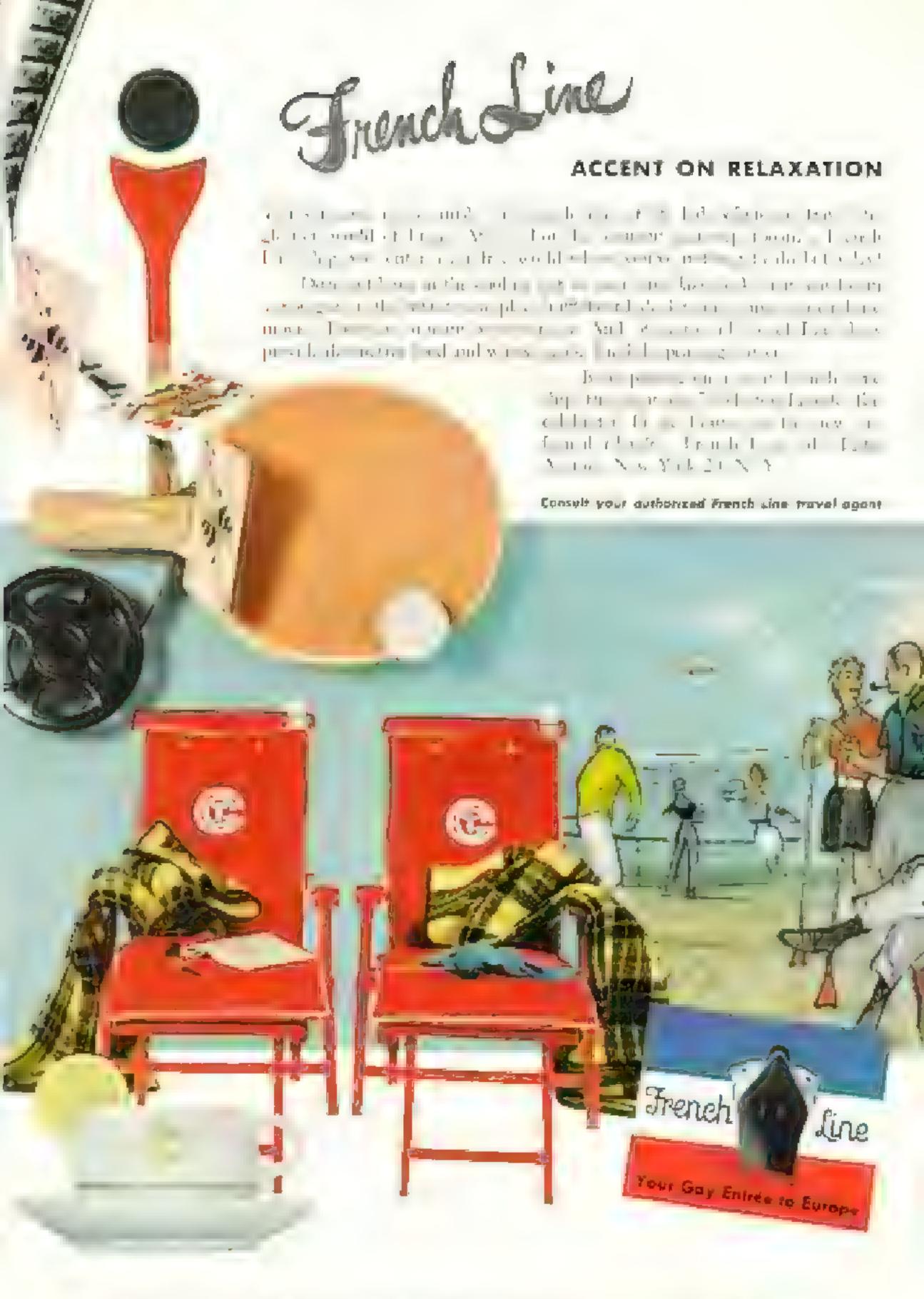
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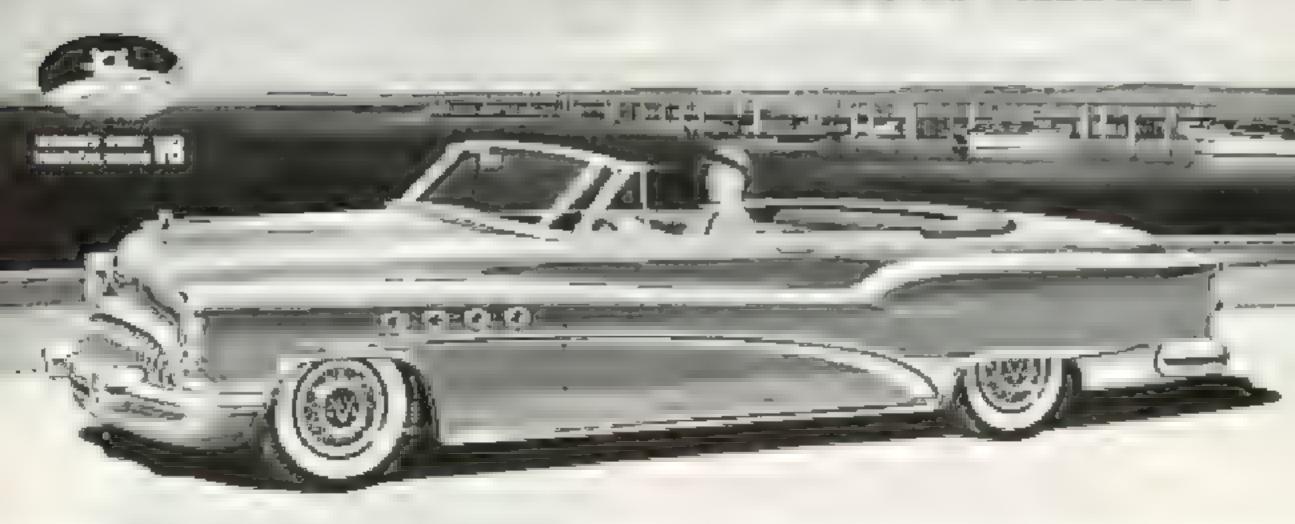


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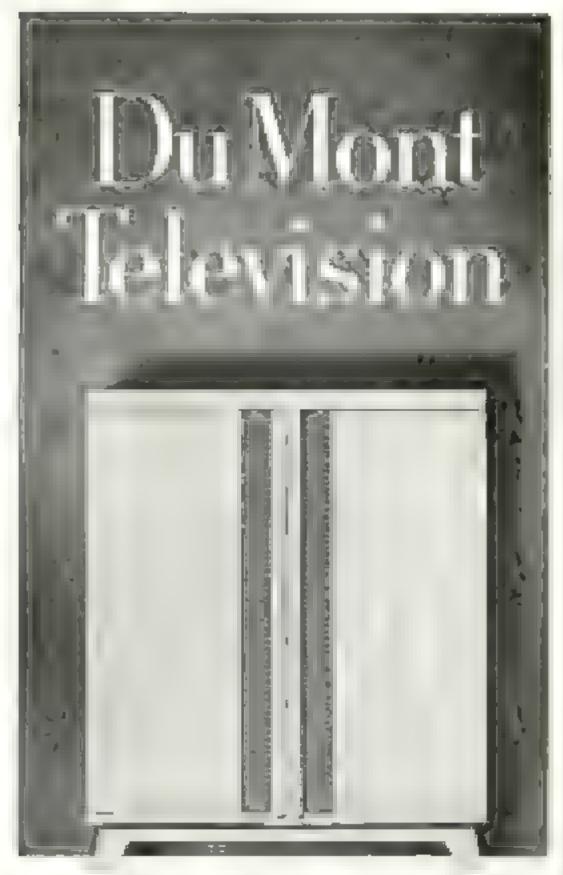
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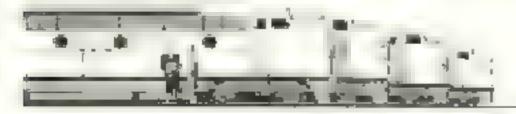


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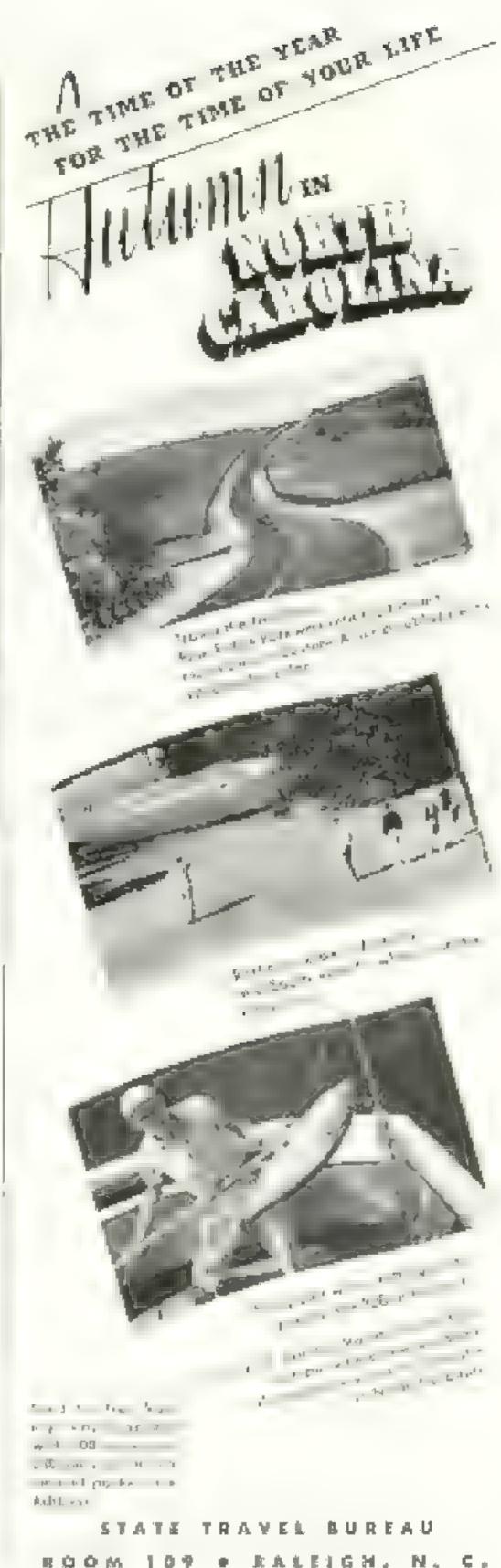


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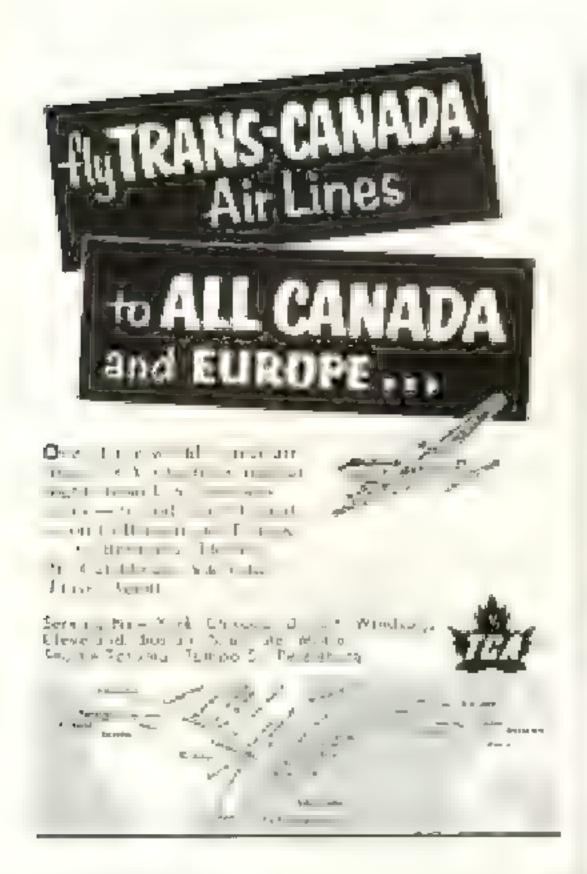
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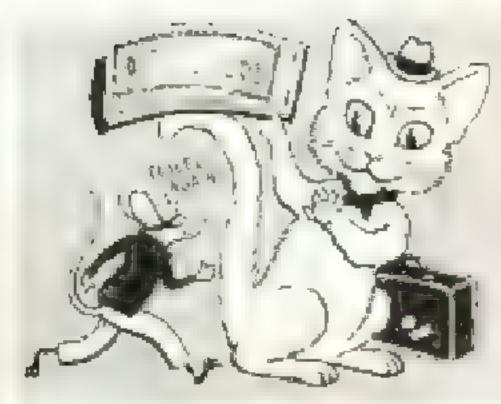
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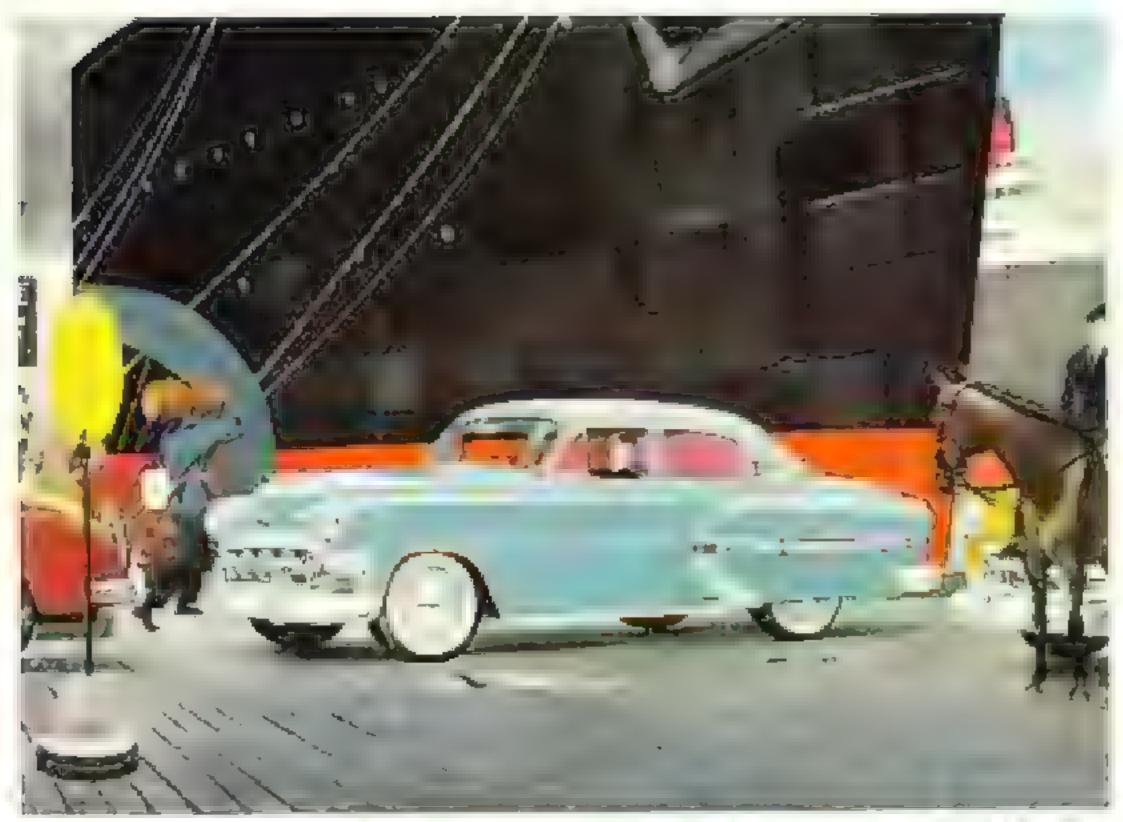
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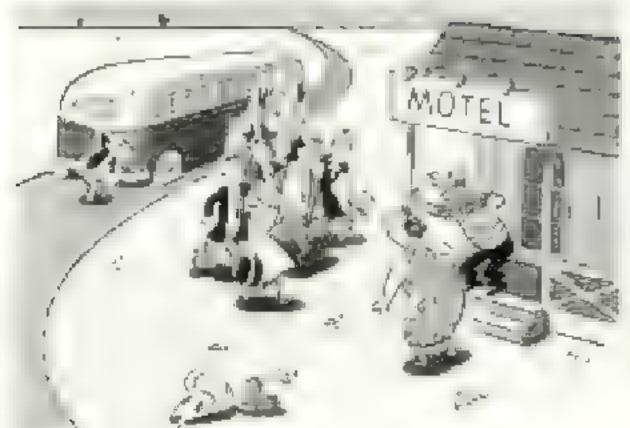
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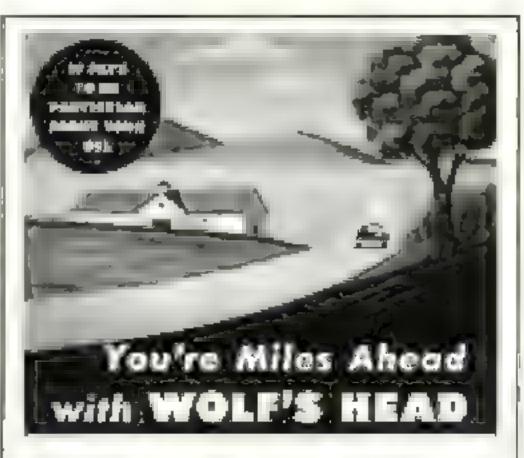
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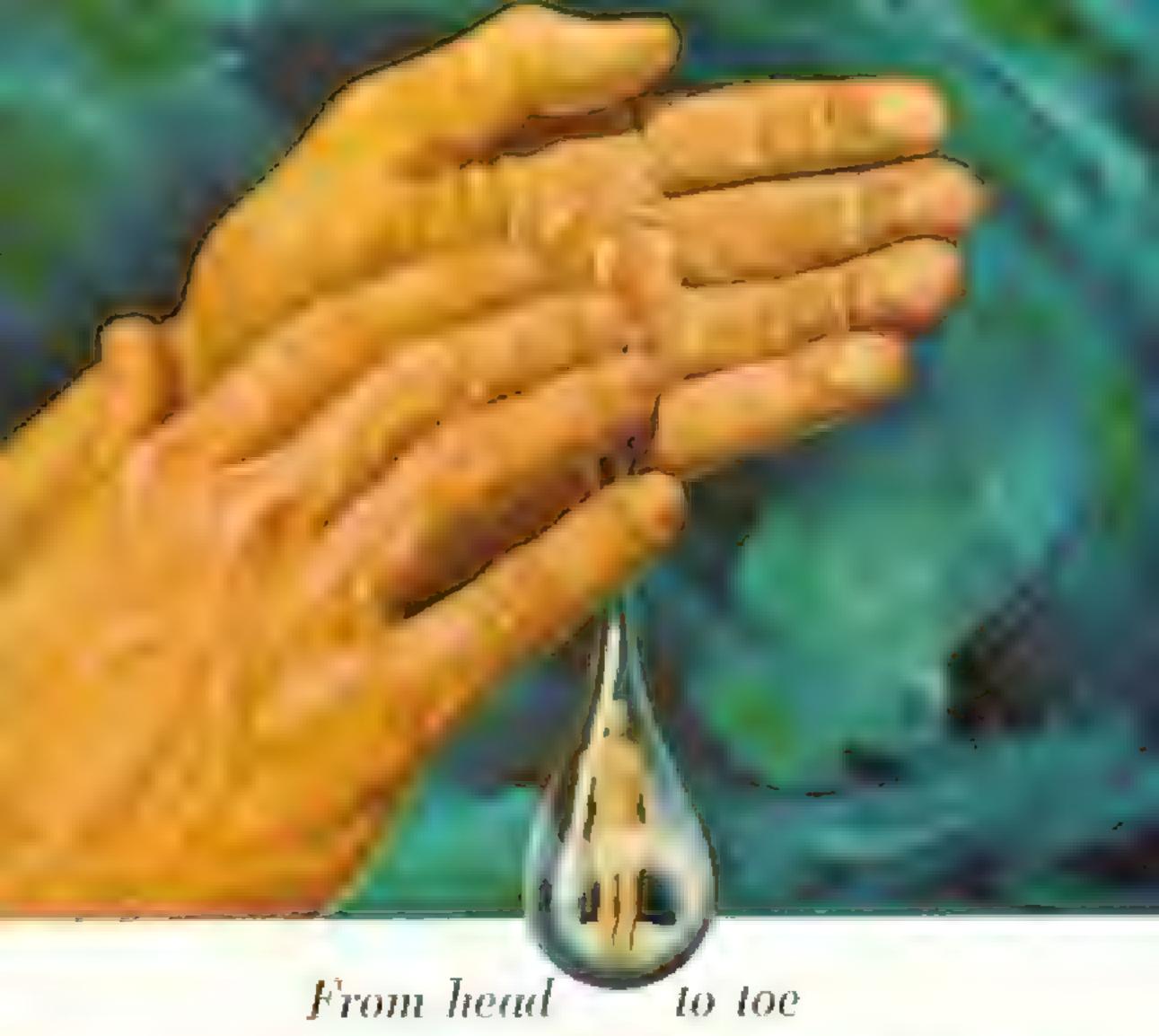
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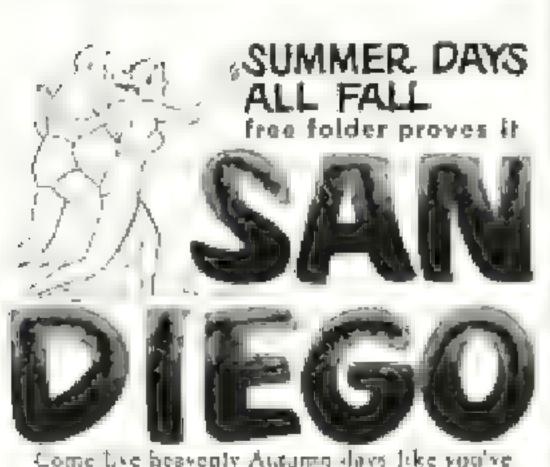
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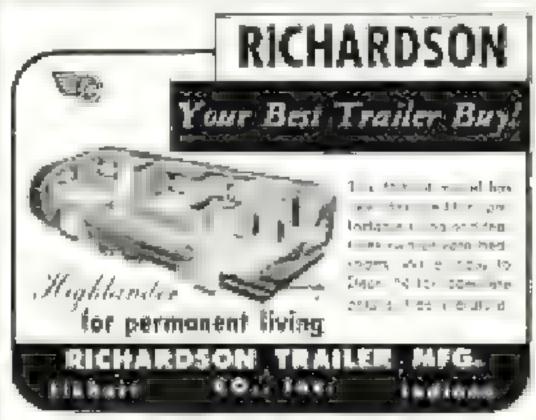


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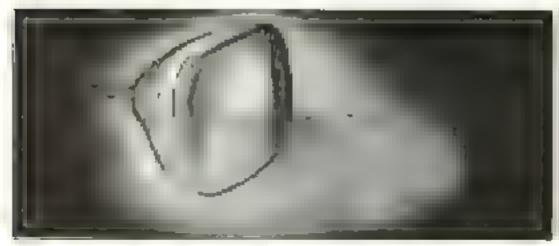
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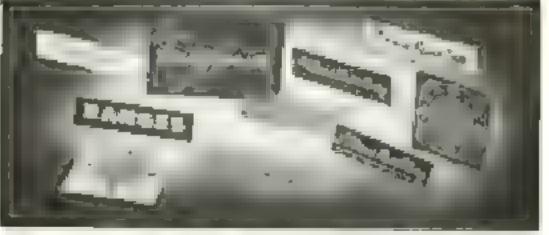
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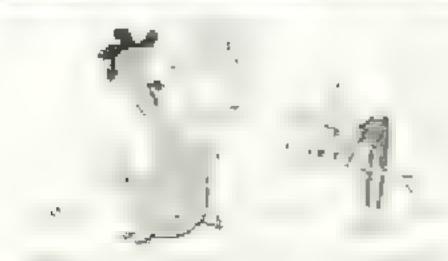
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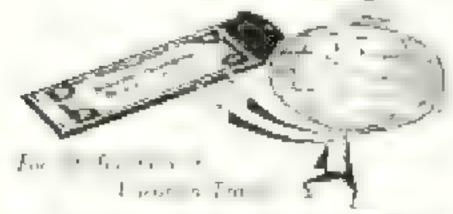
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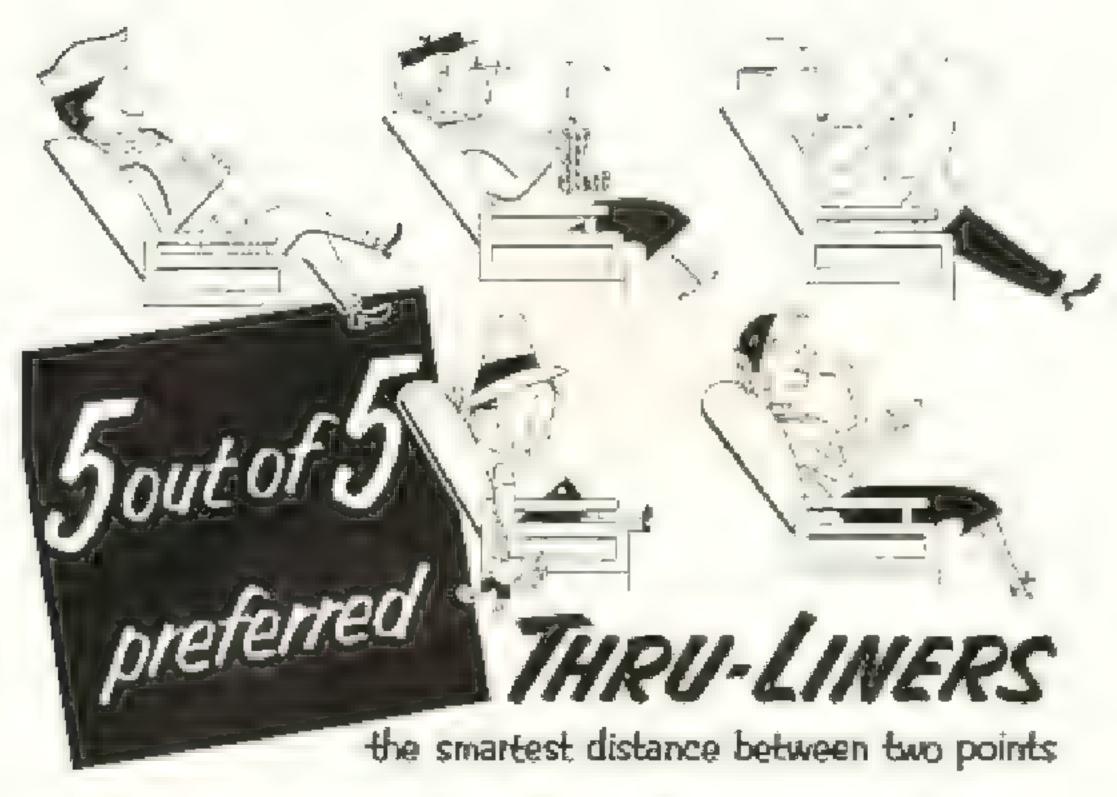
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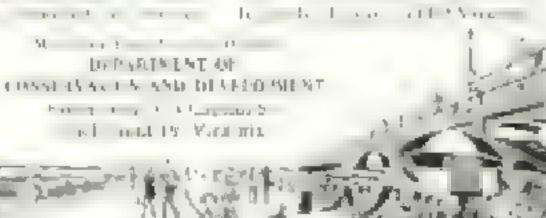


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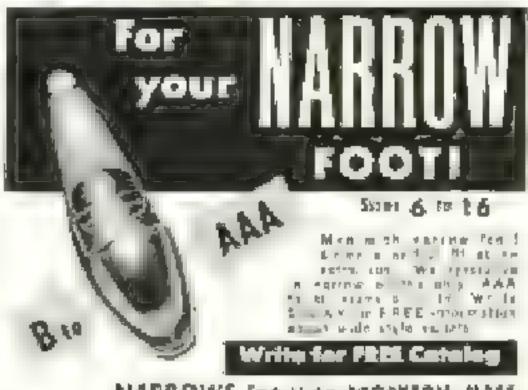




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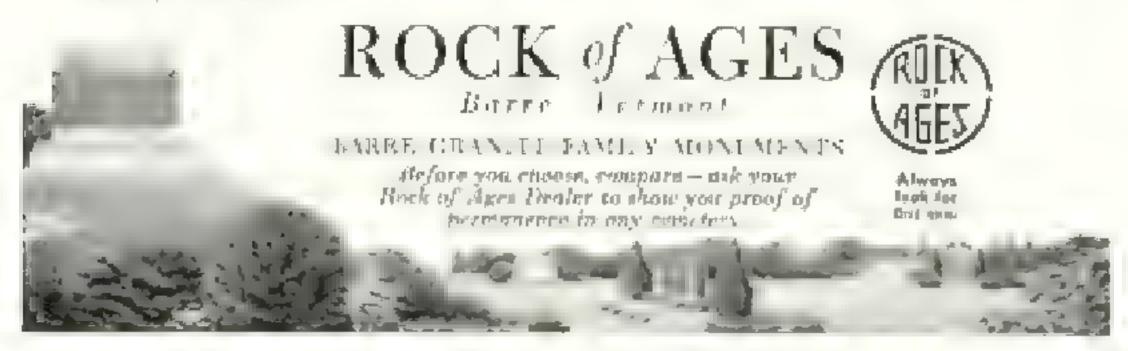


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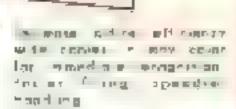
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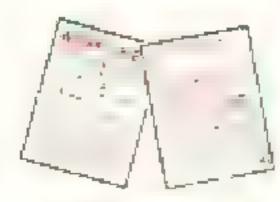
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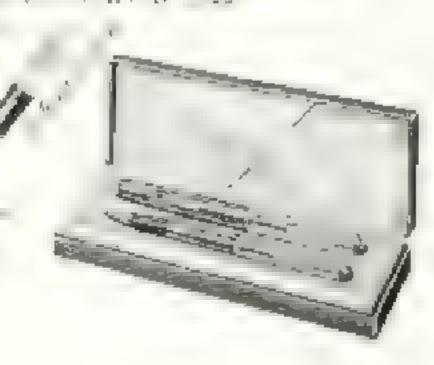
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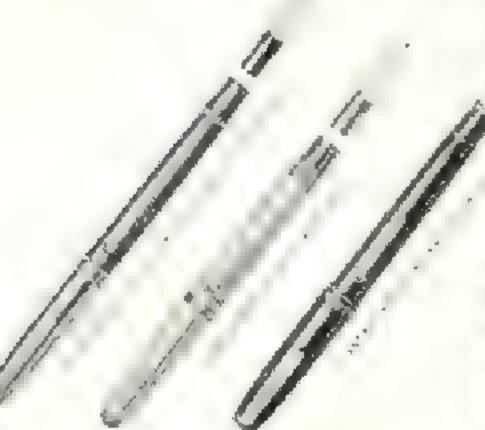
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Accidents full annually about 14,000 children under age 15. In addition, some 2 million children are temperarily or permonantly injured by accidents every year.

When chaldren return is whose, they will be exposed as an increased transfer of potential are dear intrations. Is there anything you can do to bely have a tildren from acalement of they of life? Indeed, there is, You can put more stress that ever on habits of sulp continet.

All children—especially these just entering school —should be marmed to take safety precautions in the streets. If a child rades his bacycle to school, be should know and obey such sules as keeping to the right, rights and segraling for turns.

Uni dren may also be helped to avoid accidents if parents themselves set a good example by consistently practicing habits of safety in the home and excepter. You can do his by checking a nurlinme and removing possible accident hazards

If, despite your protection and training, your child has repeated accidents, it would be wise to consult your doctor. Sometimes accidents may be caused by physical or ensotional conditions which he can be present.

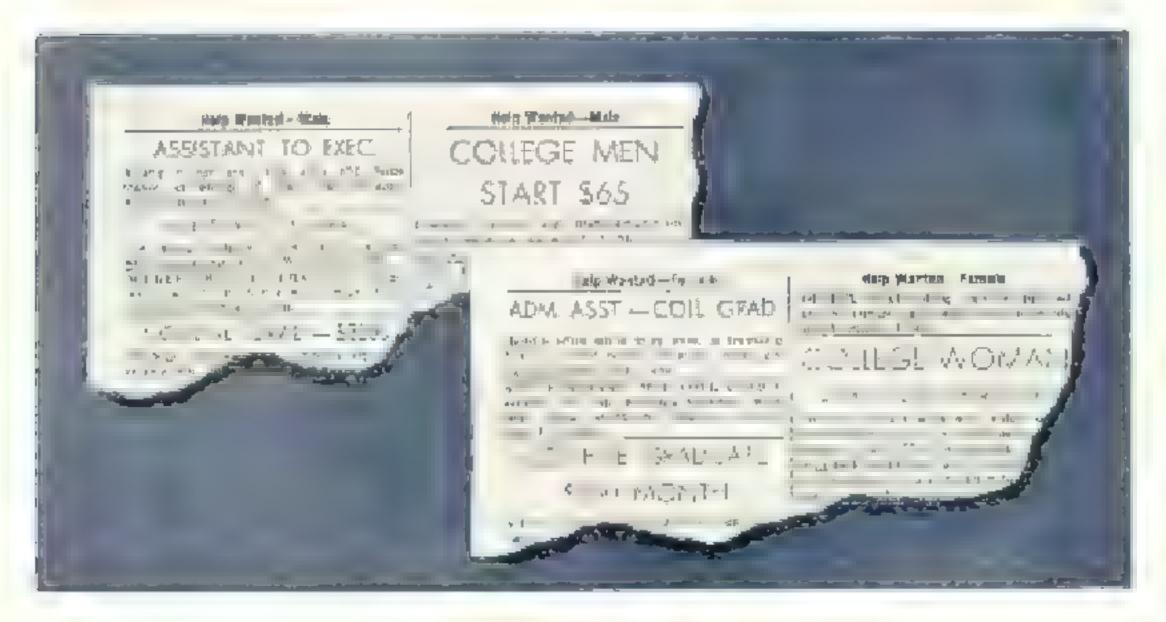
Remember that most accidents do not "just happen." Some not some estimate that 'All percent or note of them are preventable. So, make your child safety-himsded has be enters or returns to second,

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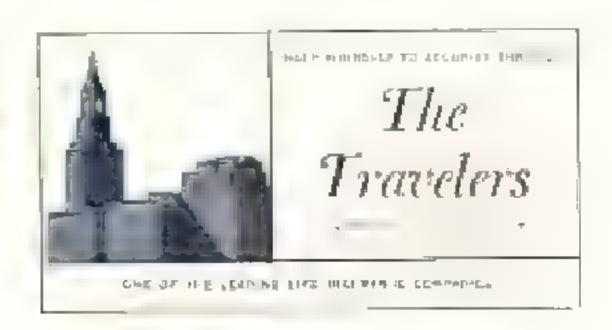
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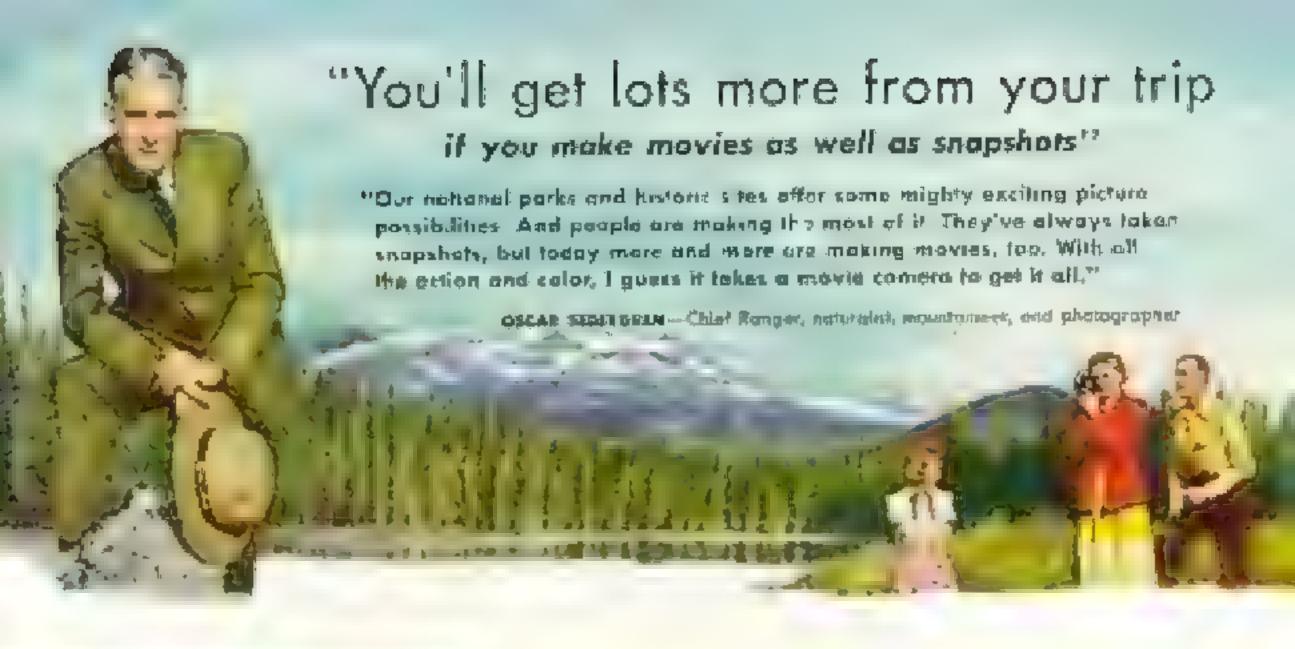


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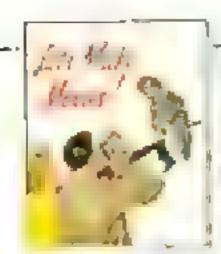


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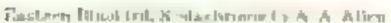
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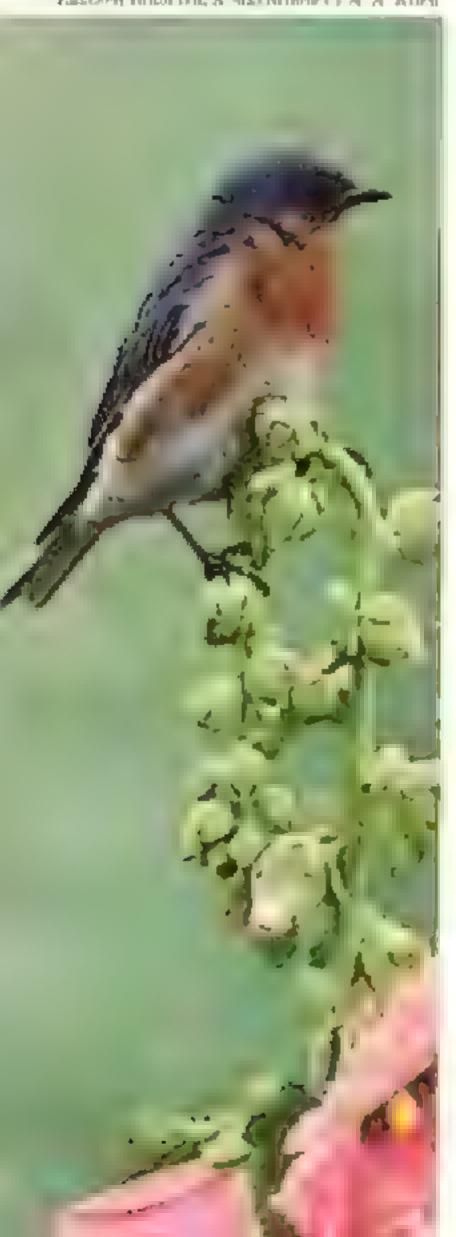
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